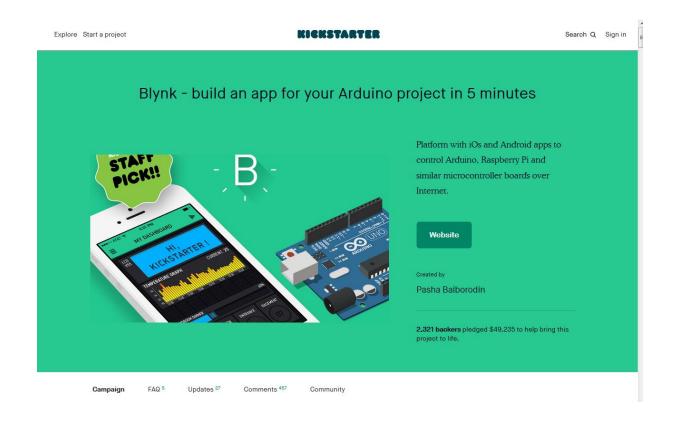
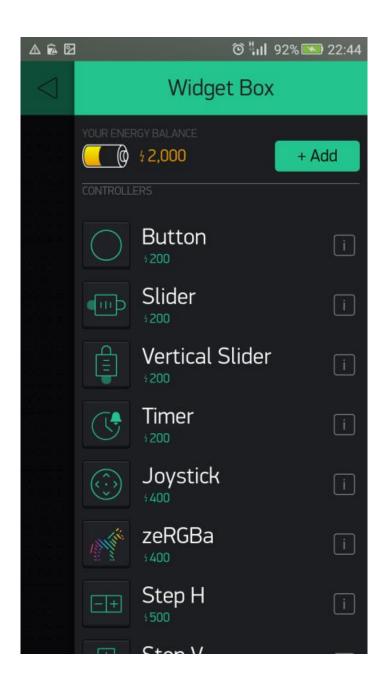
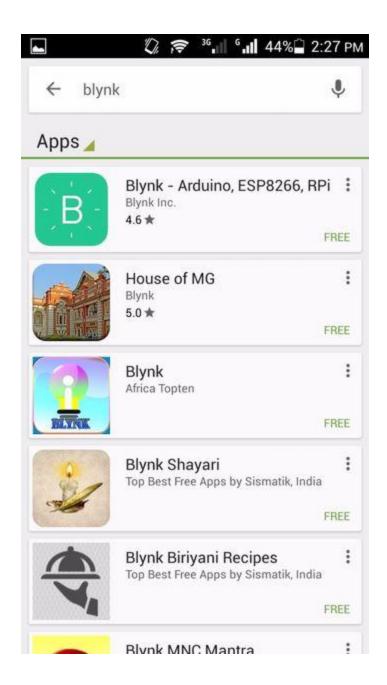
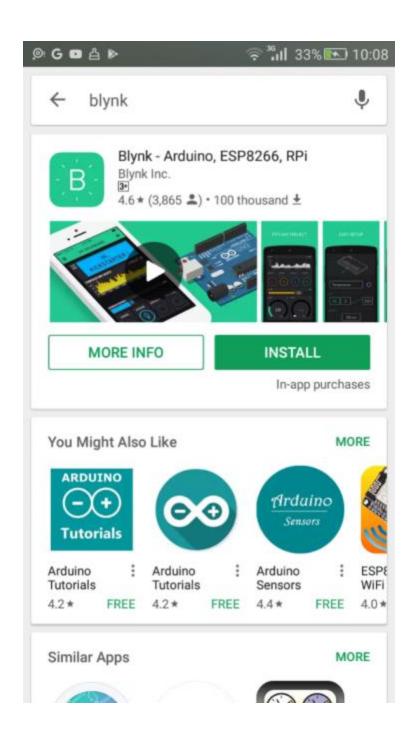
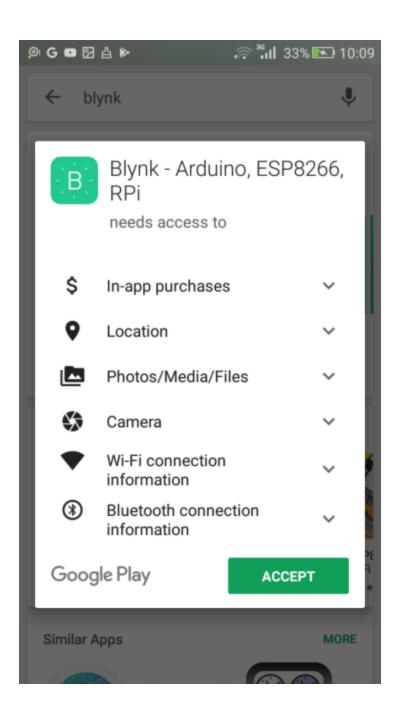
Chapter 1: Setting Up a Development Environment















Blynk - Arduino, ESP8266, RPi

Blynk Inc.

3+

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Downloads

3,865 4

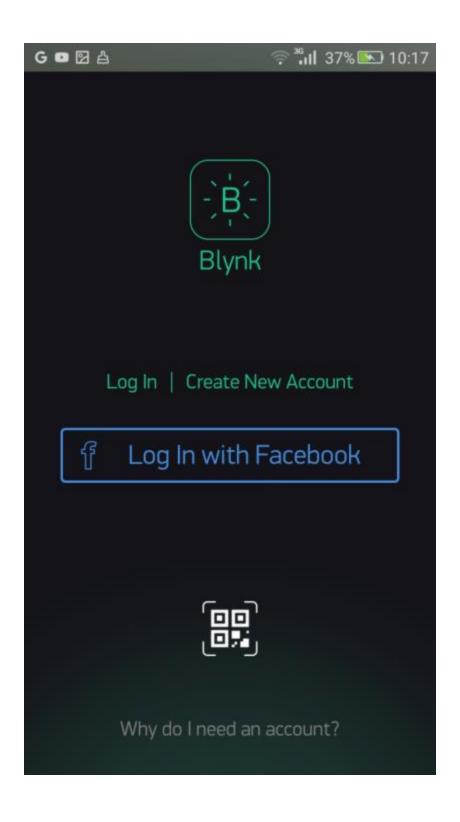
Tools

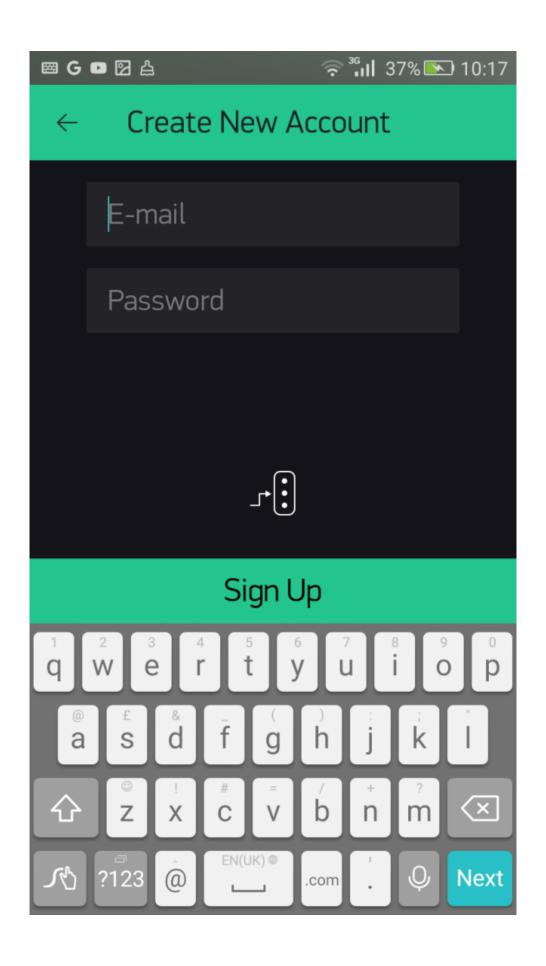
Similar

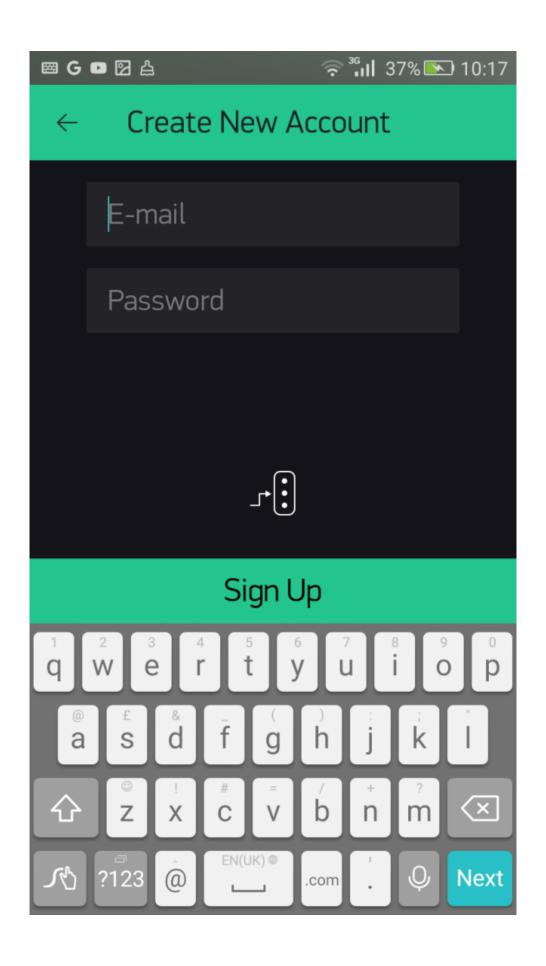
Control Arduino, ESP8266, Raspberry Pi and others with a smartphone in a minute!



Coursel undates and fives for nuch

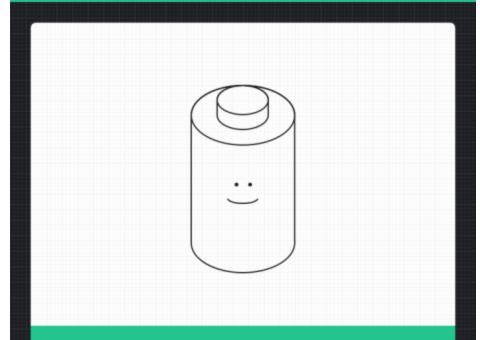








← How energy works

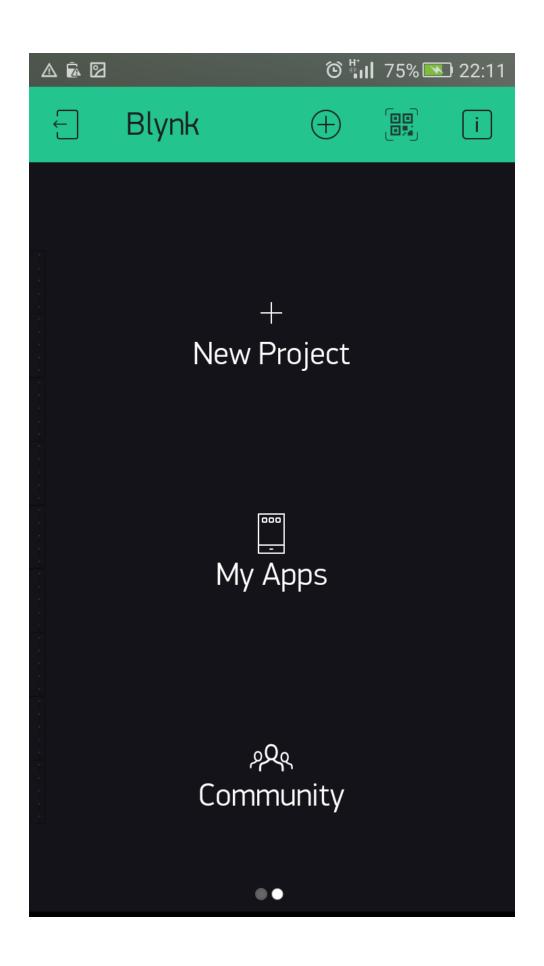


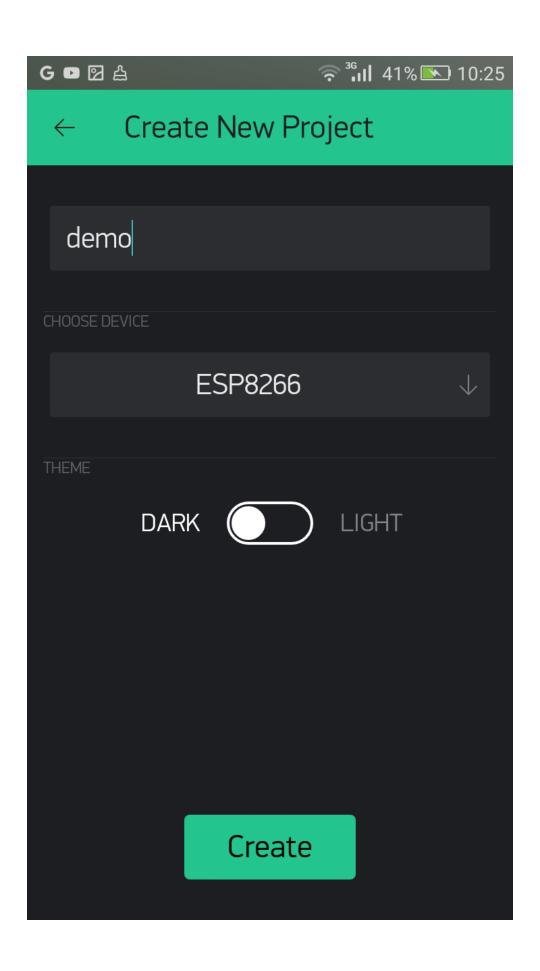
Each widget needs Energy to operate

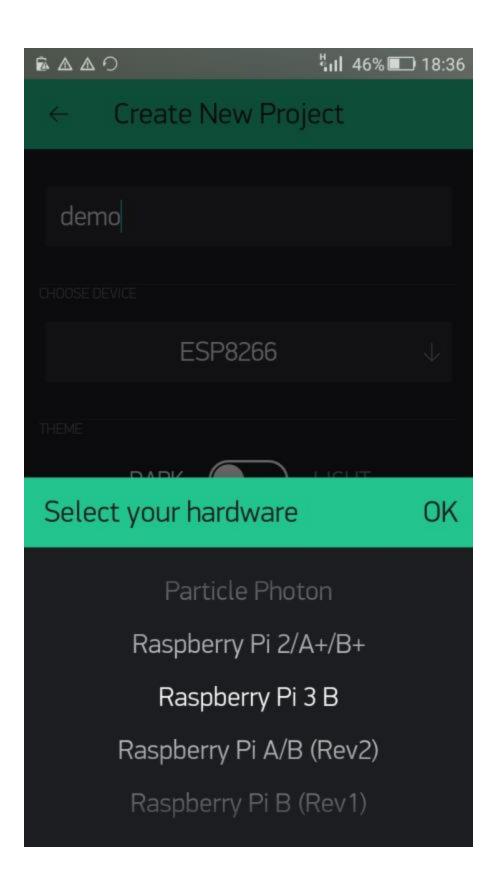
When you delete a widget Energy is returned

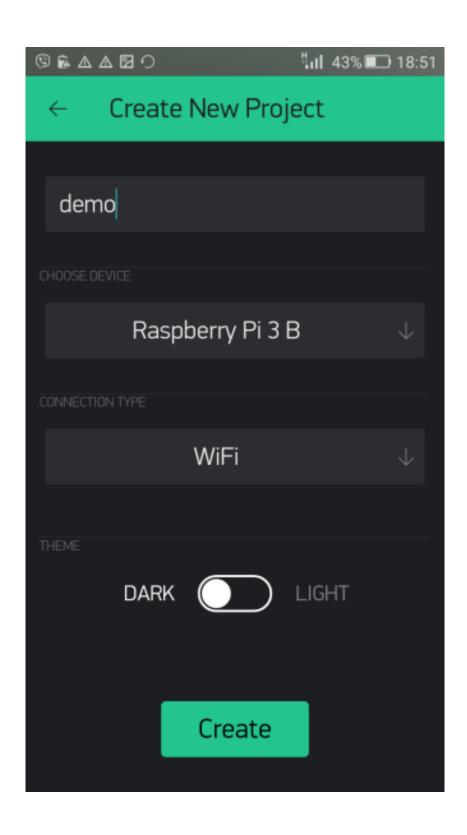
You can always get more Energy in our Store.

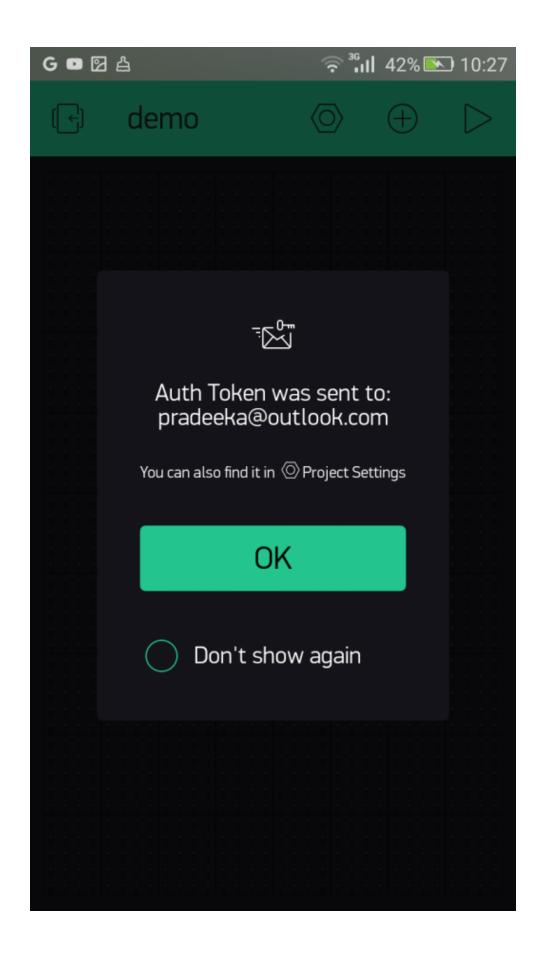
Cool! Got it.

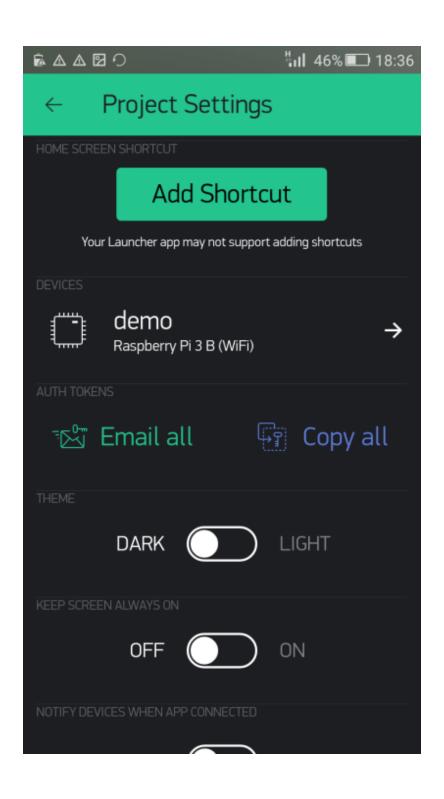


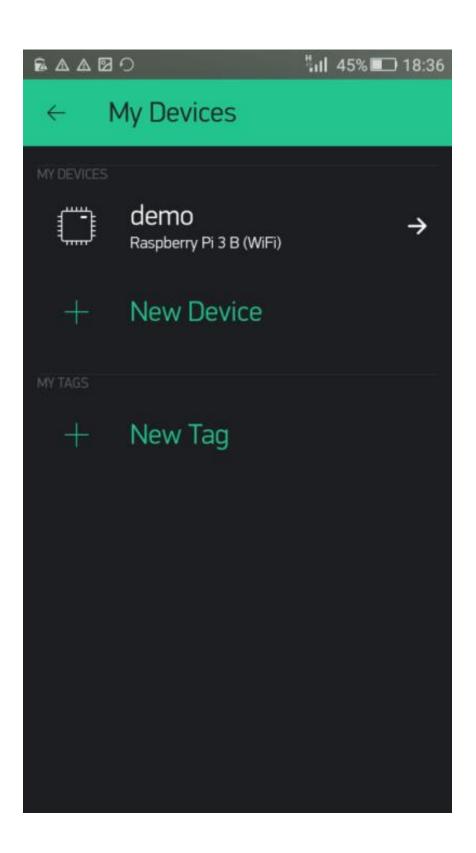


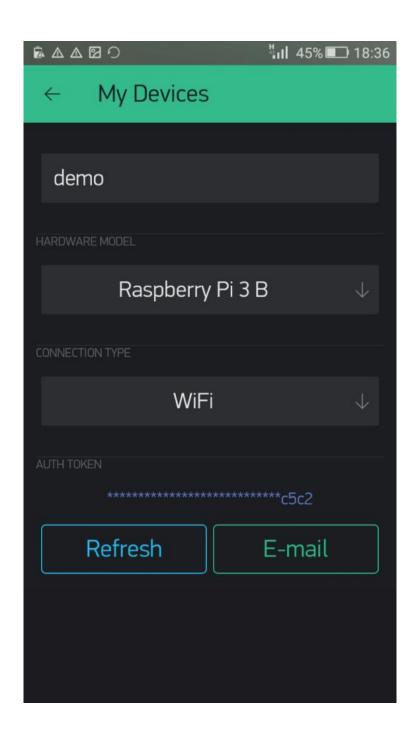






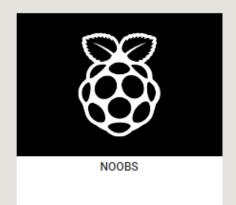






DOWNLOADS

Raspbian is the Foundation's official supported Operating System. Download it here, or use **NOOBS**, our easy installer for Raspbian and more.





BLOG DOWNLOADS COMMUNITY HELP FORUMS EDUCATION

<u>Unarchiver</u> (Macintosh). Both are free of charge and have been tested to unzip the image correctly.



RASPBIAN STRETCH WITH DESKTOP

Image with desktop based on Debian Stretch

 Version:
 November 2017

 Release date:
 2017-11-29

 Kernel version:
 4.9

 Release notes:
 Link

0

RASPBIAN STRETCH LITE

Minimal image based on Debian Stretch

 Version:
 November 2017

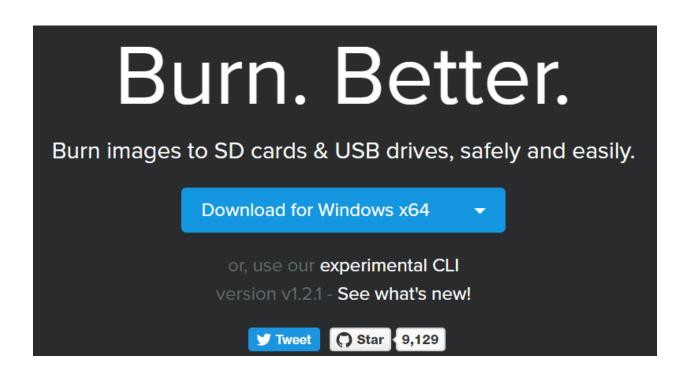
 Release date:
 2017-11-29

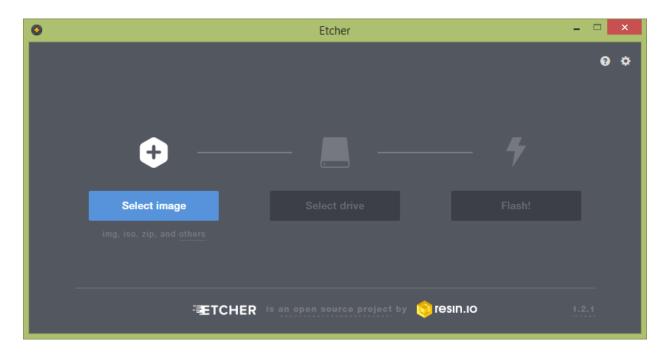
 Kernel version:
 4.9

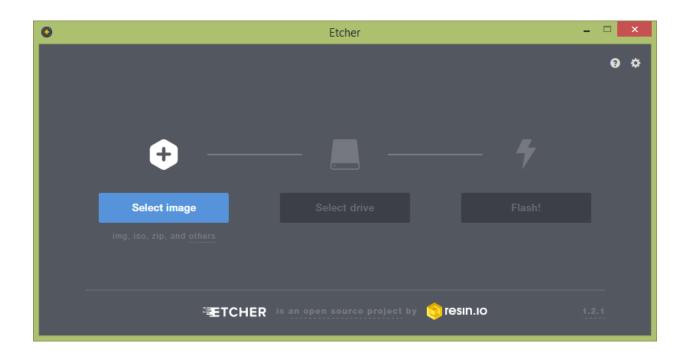
 Release notes:
 Link

SHA-256: e942b70072f2e83c446b9de6f202eb8f9692c06e7d92c343361340c

SHA-256: 64c4103316efe2a85fd2814f2af16313abac7d4ad68e3d95ae6709e c016e0c9f 2e894cc1b





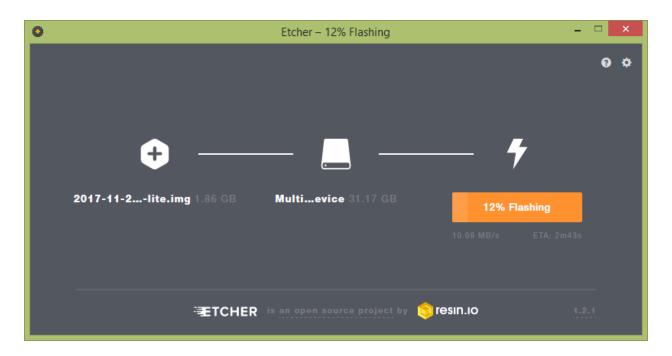










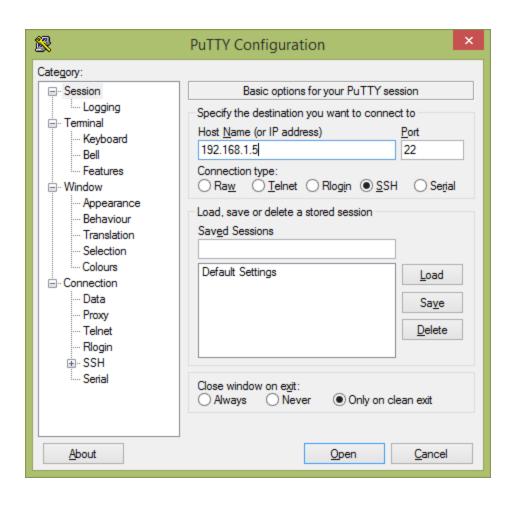


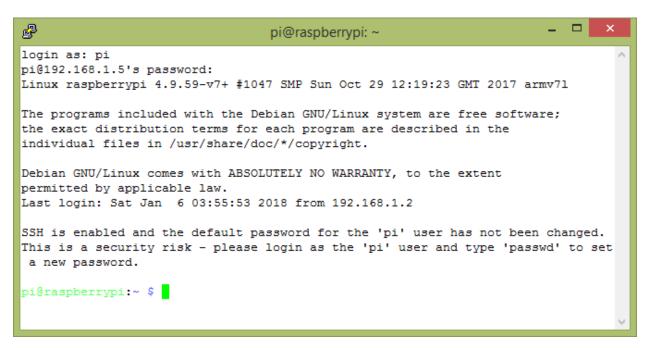
Device List

Index	Computer Name	MAC Address	IP Address	Lease Time	Status	Туре	Operation
1	Pradeeka	9C:2A:70:C 3:69:3F	192.168.1.2	0 days 12 hours 12 minutes 15 seconds	Active	Wi-Fi	Kick Out
2	raspberrypi	B8:27:EB:2 F:02:10	192.168.1.5	0 days 23 hours 57 minutes 5 seconds	Active	Ethernet	Kick Out
3	Unknown	90:23:EC:9 9:C7:57	192.168.1.3	0 days 22 hours 25 minutes 46 seconds	Inactive	Ethernet	Kick Out
4	android- f545dbea05 72d0c9	94:FE:22:6 5:B3:47	192.168.1.4	0 days 20 hours 45 minutes 26 seconds	Inactive	Ethernet	Kick Out

Device List

Index	Computer Name	MAC Address	IP Address	Lease Time	Status	Туре	Operation
1	Pradeeka	9C:2A:70:C 3:69:3F	192.168.1.2	0 days 12 hours 12 minutes 15 seconds	Active	Wi-Fi	Kick Out
2	raspberrypi	B8:27:EB:2 F:02:10	192.168.1.5	0 days 23 hours 57 minutes 5 seconds	Active	Ethernet	Kick Out
3	Unknown	90:23:EC:9 9:C7:57	192.168.1.3	0 days 22 hours 25 minutes 46 seconds	Inactive	Ethernet	Kick Out
4	android- f545dbea05 72d0c9	94:FE:22:6 5:B3:47	192.168.1.4	0 days 20 hours 45 minutes 26 seconds	Inactive	Ethernet	Kick Out

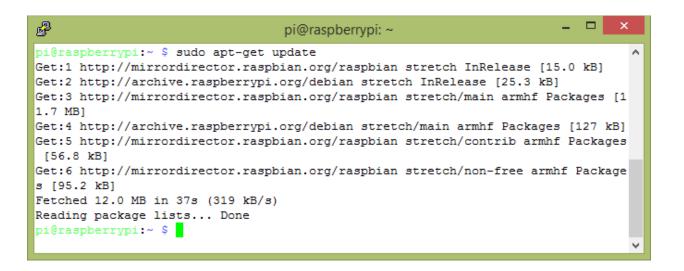




```
_ _
P
                                 pi@raspberrypi: ~
login as: pi
pi@192.168.1.5's password:
Linux raspberrypi 4.9.59-v7+ #1047 SMP Sun Oct 29 12:19:23 GMT 2017 armv71
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Sat Jan 6 04:14:55 2018 from 192.168.1.2
SSH is enabled and the default password for the 'pi' user has not been changed.
This is a security risk - please login as the 'pi' user and type 'passwd' to set
a new password.
pi@raspberrypi:~ $ ifconfig wlan0
wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 192.168.1.6 netmask 255.255.255.0 broadcast 192.168.1.255
       inet6 fe80::5234:39bb:a832:763a prefixlen 64 scopeid 0x20<link>
       ether 10:fe:ed:18:bf:eb txqueuelen 1000 (Ethernet)
       RX packets 253 bytes 75467 (73.6 KiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 43 bytes 6406 (6.2 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
pi@raspberrypi:~ $
```

Device List

Index	Computer Name	MAC Address	IP Address	Lease Time	Status	Туре	Operation
1	Pradeeka	9C:2A:70:C 3:69:3F	192.168.1.2	0 days 21 hours 59 minutes 25 seconds	Active	Wi-Fi	Kick Out
2	raspberrypi	B8:27:EB:2 F:02:10	192.168.1.5	0 days 22 hours 49 minutes 47 seconds	Active	Ethernet	Kick Out
3	Unknown	90:23:EC:9 9:C7:57	192.168.1.3	0 days 20 hours 12 minutes 55 seconds	Inactive	Ethernet	Kick Out
4	android- f545dbea05 72d0c9	94:FE:22:6 5:B3:47	192.168.1.4	0 days 18 hours 32 minutes 35 seconds	Inactive	Ethernet	Kick Out
5	raspberrypi	10:FE:ED:1 8:BF:EB	192.168.1.6	0 days 22 hours 49 minutes 47 seconds	Inactive	Wi-Fi	Kick Out



```
_ 🗆
P
                                 pi@raspberrypi: ~
pi@raspberrypi:~ $ sudo apt-get dist-upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
 base-files curl dbus iproute2 libcurl3 libcurl3-gnutls libdbus-1-3 libicu57
 libpython2.7-minimal libpython2.7-stdlib libsqlite3-0 libssl1.0.2
 openssh-client openssh-server openssh-sftp-server python2.7
 python2.7-minimal raspberrypi-sys-mods raspi-config rsync sensible-utils ssh
 tzdata
23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 16.1 MB of archives.
After this operation, 114 kB disk space will be freed.
Do you want to continue? [Y/n] y
Get:1 http://archive.raspberrypi.org/debian stretch/main armhf raspberrypi-sys-m
ods armhf 20180103 [8,932 B]
Get:3 http://archive.raspberrypi.org/debian stretch/main armhf raspi-config all
20171201 [19.9 kB]
```





```
pi@raspberrypi:~ $ git --version
git version 2.11.0
pi@raspberrypi:~ $ git clone git://git.drogon.net/wiringPi
Cloning into 'wiringPi'...
remote: Counting objects: 1151, done.
remote: Compressing objects: 100% (957/957), done.
remote: Total 1151 (delta 803), reused 214 (delta 142)
Receiving objects: 100% (1151/1151), 366.90 KiB | 246.00 KiB/s, done.
Resolving deltas: 100% (803/803), done.
pi@raspberrypi:~ $
```

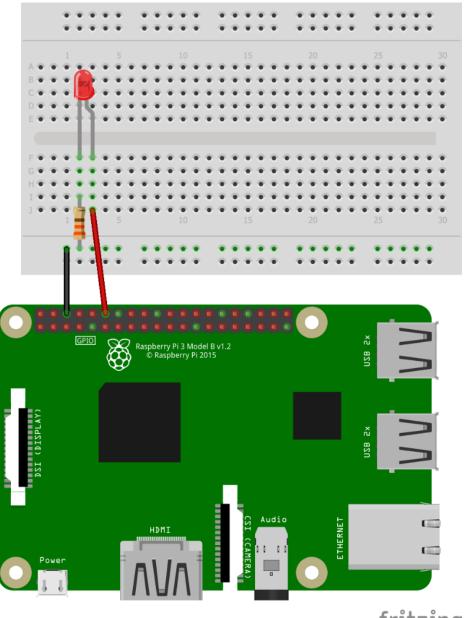
```
_ 🗆 ×
                                       pi@raspberrypi: ~/wiringPi
pi@raspberrypi:~ $ ls
wiringPi
pi@raspberrypi:~ $ clear
pi@raspberrypi:~ $ cd wiringPi
pi@raspberrypi:~/wiringPi $ ./build
wiringPi Build script
WiringPi Library
[UnInstall]
[Compile] wiringPi.c
[Compile] wiringSerial.c
[Compile] wiringShift.c
[Compile] piHiPri.c
[Compile] piThread.c
[Compile] wiringPiSPI.c
[Compile] wiringPiI2C.c
[Compile] softPwm.c
[Compile] softTone.c
[Compile] mcp23008.c
[Compile] mcp23016.c
[Compile] mcp23017.c
                    warning: 🐧
                                               ' defined but not used [-Wunused-function]
               void digitalWrite8Dummv
                                             (UNU struct wiringPiNodeStruct *node, UNU int pin, U
static
NU int value) { return ; }
                   warning: '
                                              ' defined but not used [-Wunused-function]
static unsigned int digitalRead8Dummy
                                              (UNU struct wiringPiNodeStruct *node, UNU int UNU pi
             { return 0 ; }
[Compile] mcp23s08.c
```

```
pi@raspberrypi:~/wiringPi $ cd
pi@raspberrypi:~ $ git clone https://github.com/blynkkk/blynk-library.git
Cloning into 'blynk-library'...
remote: Counting objects: 10548, done.
remote: Total 10548 (delta 0), reused 0 (delta 0), pack-reused 10547
Receiving objects: 100% (10548/10548), 9.02 MiB | 1.33 MiB/s, done.
Resolving deltas: 100% (6535/6535), done.
pi@raspberrypi:~ $
```

```
pi@raspberrypi: ~/blynk-library/linux $ make clean all target=raspberry
rm main.o ../src/utility/BlynkDebug.o ../src/utility/BlynkHandlers.o ../src/utility/BlynkTimer.o b
lynk
g++ -I ../src/ -I ./ -DLINUX -c -03 -w -DRASPBERRY main.cpp -o main.o
g++ -I ../src/ -I ./ -DLINUX -c -03 -w -DRASPBERRY ../src/utility/BlynkDebug.cpp -o ../src/utility
/BlynkDebug.o
g++ -I ../src/ -I ./ -DLINUX -c -03 -w -DRASPBERRY ../src/utility/BlynkHandlers.cpp -o ../src/util
ity/BlynkHandlers.o
g++ -I ../src/ -I ./ -DLINUX -c -03 -w -DRASPBERRY ../src/utility/BlynkHimer.cpp -o ../src/utility
/BlynkTimer.o
g++ main.o ../src/utility/BlynkDebug.o ../src/utility/BlynkHandlers.o ../src/utility/BlynkTimer.o
-lrt -lpthread -s -lwiringPi -o blynk
```

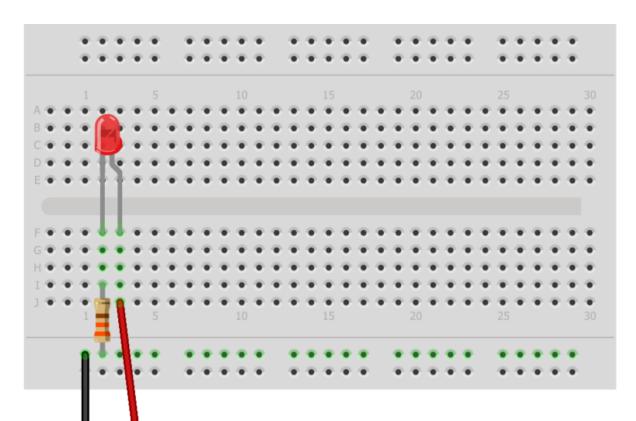


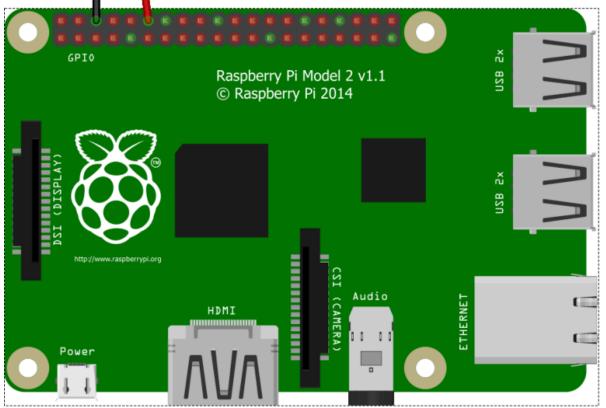
Chapter 2: Building Your First Blynk Application



fritzing

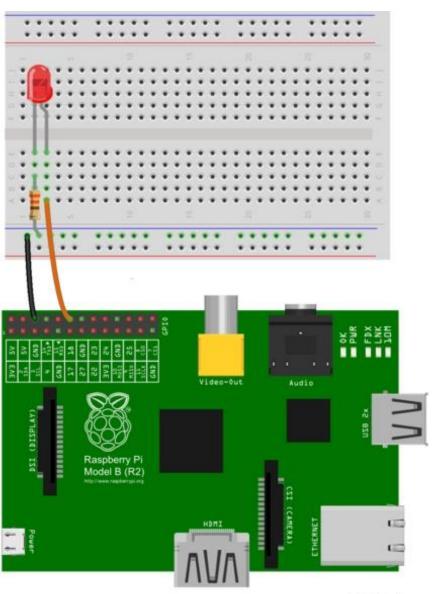
pi	@raspb	perrypi	:~ \$ gpio	readal]		Pi	3			·		++
	ВСМ	wPi							Mode	Name	wPi	ВСМ
			3.3v			1	2			5v		
	2	8	SDA.1	ALT0	1	3	4	j j		5 V	j	i i
	3	9	SCL.1	ALT0	1	5	6	į		0v		į į
Ì	4	7	GPI0. 7	IN	0	7	8	1	IN	TxD	15	14
			0v			9	10	1	IN	RxD	16	15
Ì	17	0	GPIO. 0	IN	0	11	12	0	IN	GPIO. 1	1	18
	27	2	GPIO. 2	IN	0	13	14			0v		
	22	3	GPIO. 3	IN	0	15	16	0	IN	GPIO. 4	4	23
			3.3v			17	18	0	IN	GPIO. 5	5	24
	10	12	MOSI	ALT0	1	19	20			0v		
	9	13	MISO	ALT0	1	21	22	0	IN	GPIO. 6	6	25
	11	14	SCLK	ALT0	0	23	24	1	OUT	CE0	10	8
			0v			25	26	1	OUT	CE1	11	7
	0	30	SDA.0	IN	1	27	28	1	OUT	SCL.0	31	1
	5	21	GPI0.21	IN	0	29	30			0v		
	6	22	GPI0.22	IN	0	31	32	0	IN	GPI0.26	26	12
	13	23	GPI0.23	IN	1	33	34			0v		
	19	24	GPI0.24	IN	0	35	36	0	IN	GPI0.27	27	16
	26	25	GPI0.25	IN	0	37	38	0	IN	GPI0.28	28	20
			0v			39	40	0	IN	GPI0.29	29	21
	всм	wPi	Name	Mode	V	Phys	ical	V	Mode	Name	wPi	BCM
+						Pi	3	+	 	ļ	+	++





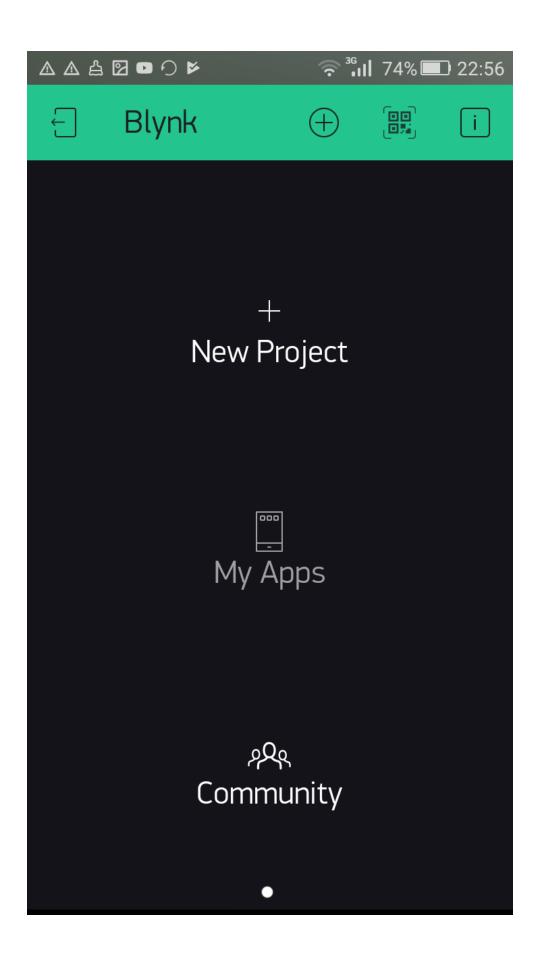
fritzing

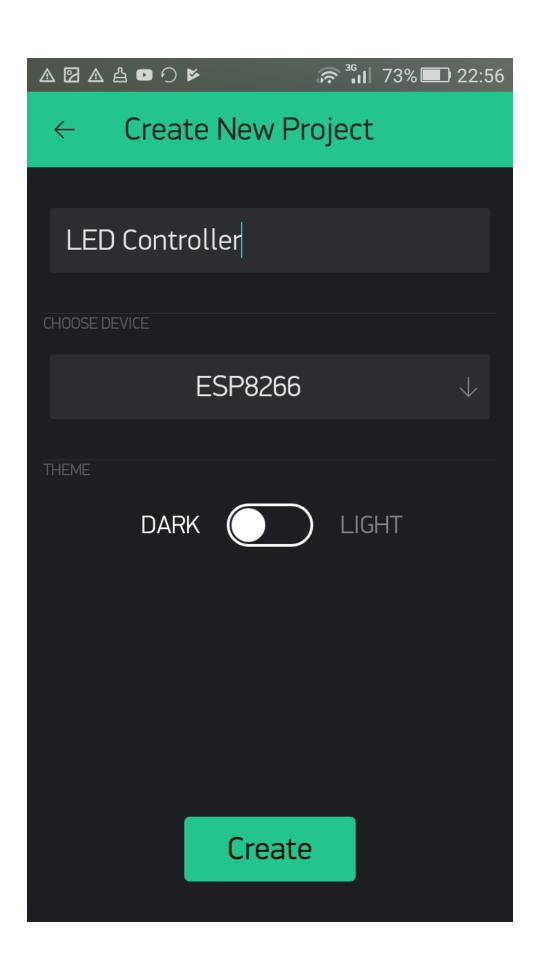
	BCM		wPi		Name		Mode	I	V		Phy	ysi	cal	1	V	I	Mode		Name	I	wPi	I	BCM	
		Ī			3.3v			Ī			1	П	2	1					5v	Ī		ī		
ŝ	2		8		SDA.1		ALTO	I	1	I	3	11	4	ľ					5V	1				ı
	3		9		SCL.1		ALTO	1	1	1	5	11	6	I				I	0v					ı
Ė	4	ľ	7		GPIO. 7		IN	1	1	I	7	11	8	Ė	1		ALTO	I	TxD		15		14	ı
					0v			1		I	9	11	10		1		ALTO		RxD		16		15	ı
ŝ	17	Ē	0		GPIO. O		IN	Ī	0	I	11	11	12	1	0		IN		GPIO. 1		1	ľ	18	ı
i	27	i	2		GPIO. 2		OUT	1	0	1	13	11	14	1				i	Ov					ı
ŝ	22	ľ	3		GPIO. 3		OUT	I	0	1	15	11	16	Т	1		OUT		GPIO. 4		4		23	ı
ŝ		Ė			3.3v			Ī		Ī	17	11	18	П	0		IN	ľ	GPIO. 5		5	ľ	24	ı
i	10		12		Mosi		IN	1	0	1	19	11	20						Ov					ı
ŝ	9	Ė	13		MISO	i	IN	Ī	0	T	21	11	22		0		IN	ī	GPIO. 6		6	ľ	25	ı
	11		14		SCLK		IN	I	0	1	23	11	24	Т	1		IN		CEO		10		8	ı
ŝ		Ē			0v			Ī		Ī	25	11	26	Т	1		IN		CE1		11	ľ	7	ı
ŝ	0		30		SDA.O		IN	Ī	1	1	27	11	28	П	1		IN		SCL.O		31		1	ı
ŝ	5		21		GPI0.21		OUT	I	0	1	29	11	30						0v					ı
ŝ	6	ľ	22		GPI0.22		IN	I	1	I	31	11	32	1	1		IN		GPIO.26	1	26		12	ı
i	13		23		GPI0.23		IN	1	0	1	33	11	34	1					Ov					ı
ŝ	19	Ė	24		GPI0.24		IN	Ī	0	T	35	11	36	П	0		IN	ī	GPI0.27		27	ľ	16	ı
ŝ	26		25		GPI0.25		IN	1	0	1	37	11	38	П	0		IN		GPIO.28		28		20	ı
					0v			1			39	П	40	I	1	I	IN		GP10.29	1	29	1	21	
1	вси	1	wPi	1	Name	1	Mode	1	v	1	Ph	-++ Vsi	cal		v	1	Mode	1	Name	1	 wΡi	1	всм	

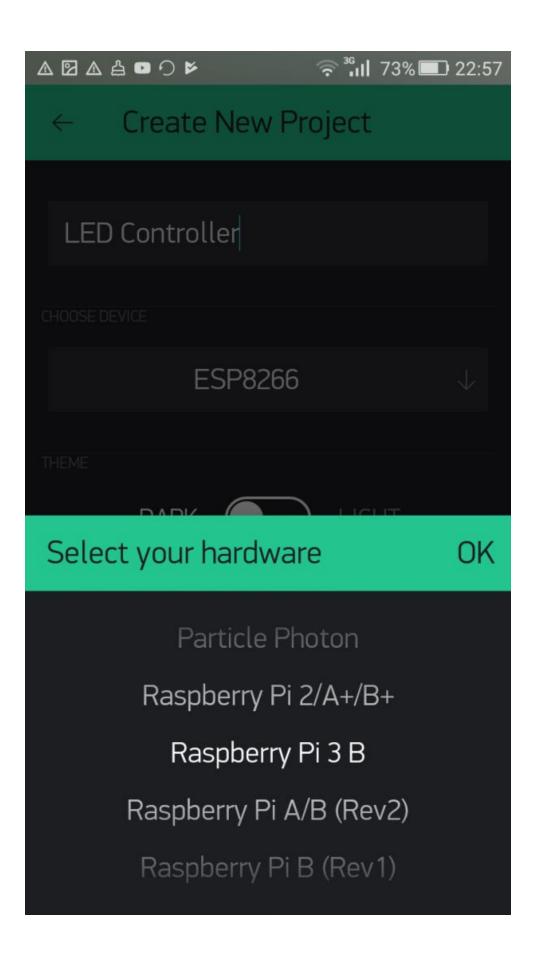


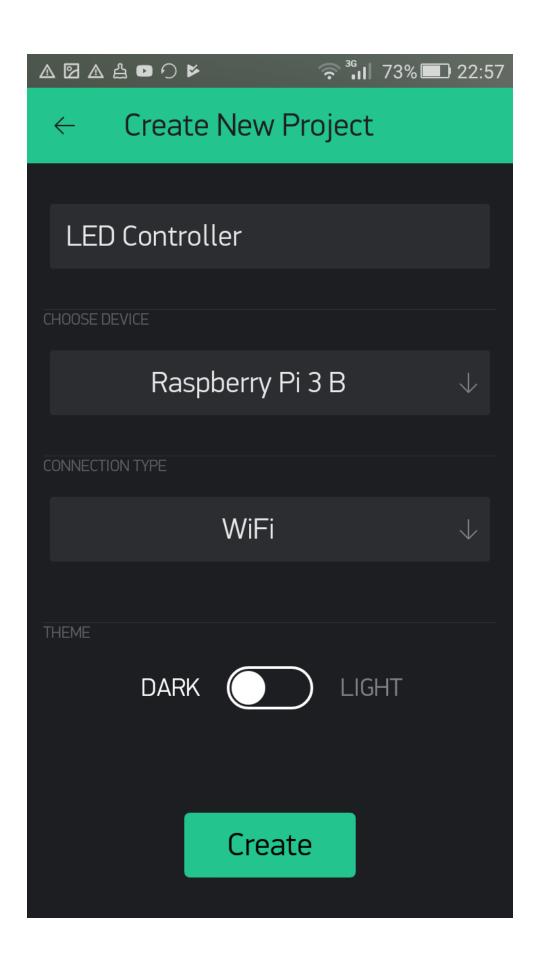
fritzing

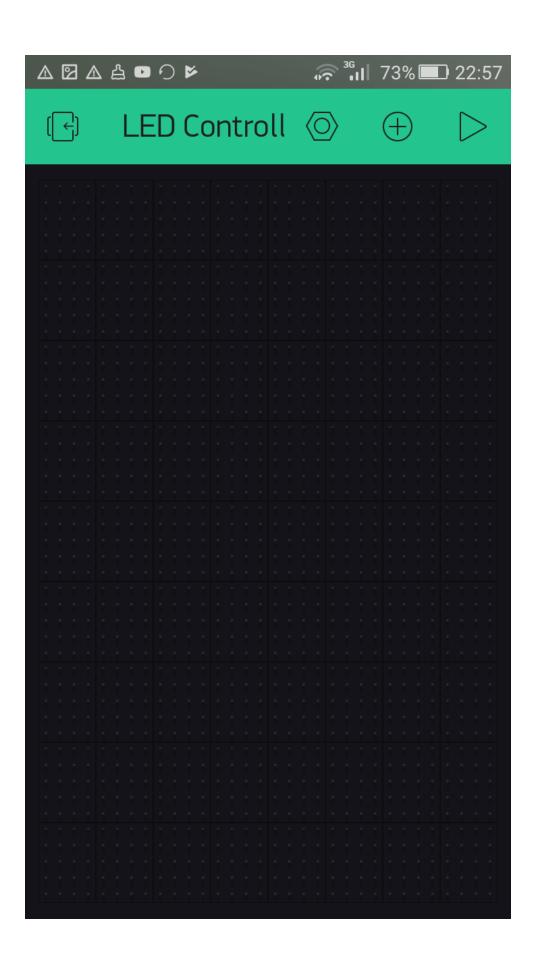
BCM	wPi	Name	Mode	V	Phys	ical	V	Mode	Name	wPi	BCM
		3.3v			1 1	2			5v		f
2	8	SDA.1	ALTO	1	3	4			5V		ì
3	9	SCL.1	ALTO	ī	5	6			Ov		i
4	7	GPI0. 7	IN	ō	7 1	8	1	ALTO	TxD	15	14
		Ov			9	10	ī	ALTO	RxD	16	15
17	0	GPIO. O	IN	0	11	12	0	IN	GPIO. 1	1	18
27	2	GPIO. 2	IN	0	13	14			Ov		
22	3	GPIO. 3	IN	0	15	16	0	IN	GPIO. 4	4	23
		3.3v			17	18	0	IN	GPI0. 5	5	24
10	12	MOSI	ALTO	0	19	20			Ov		
9	13	MISO	ALTO	0	21	22	0	IN	GPI0. 6	6	25
11	14	SCLK	ALTO	0	23	24	1	OUT	CEO	10	8
		Οv			25	26	1	OUT	CE1	11	7
0	30	SDA.0	IN	1	27	28	1	IN	SCL.0	31	1
5	21	GPI0.21	IN	1	29	30			Ov		Į.
6	22	GPI0.22	IN	1	31	32	0	IN	GPI0.26	26	12
13	23	GPI0.23	IN	0	33	34			Ov		
19	24	GPI0.24	IN	0	35	36	0	IN	GPI0.27	27	16
26	25	GPI0.25	IN	0	37	38	0	IN	GPI0.28	28	20
		Ov			39	40	0	IN	GPI0.29	29	21
всм	wPi	Name	Mode	٧	Phys	ical	V	Mode	Name	wPi	BCN

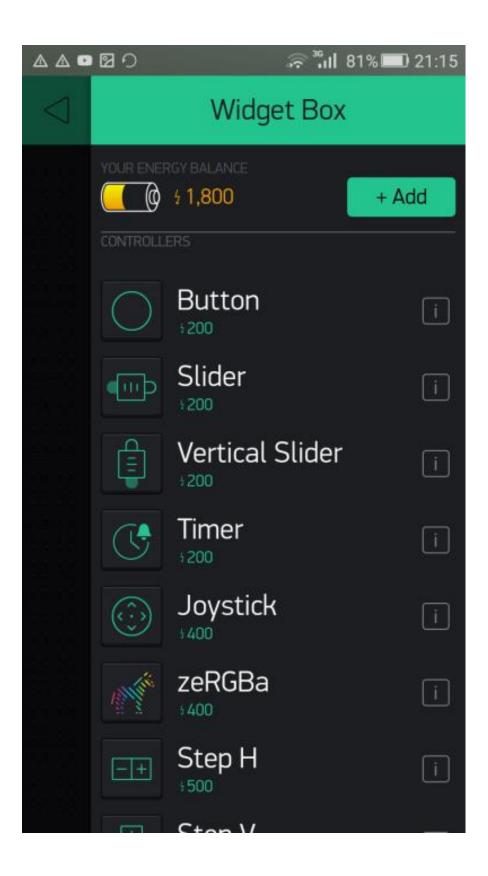


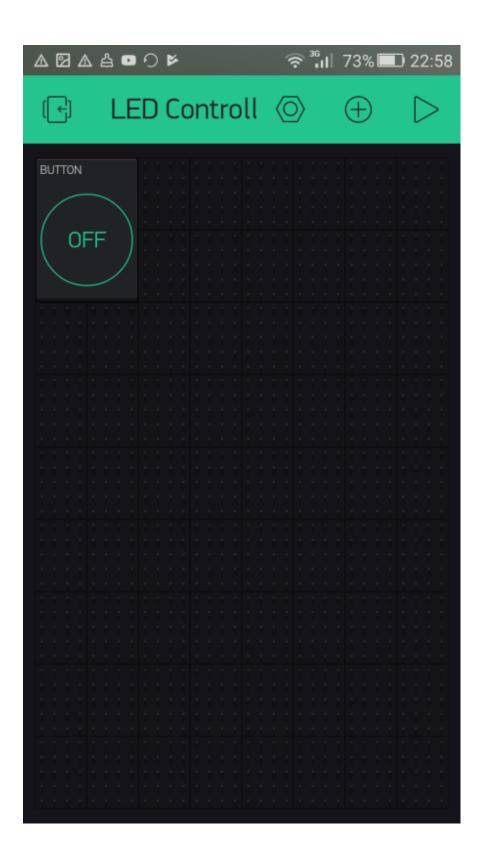


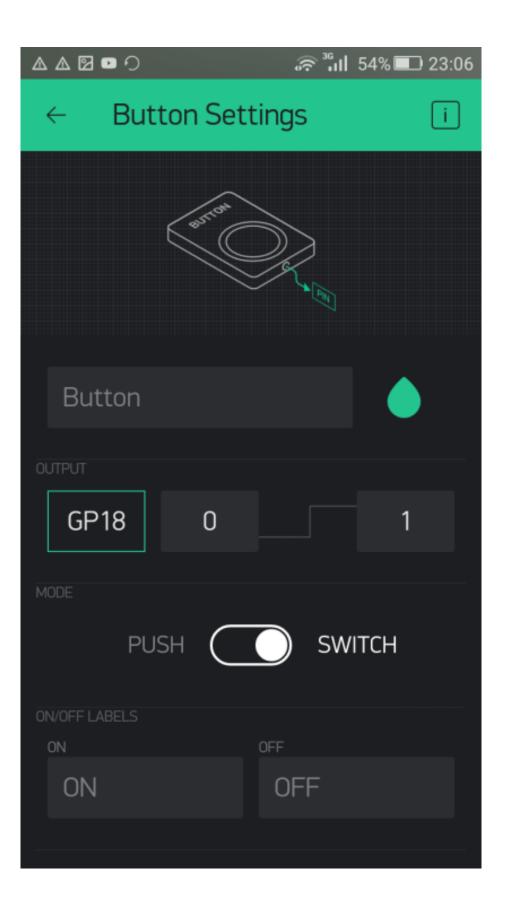


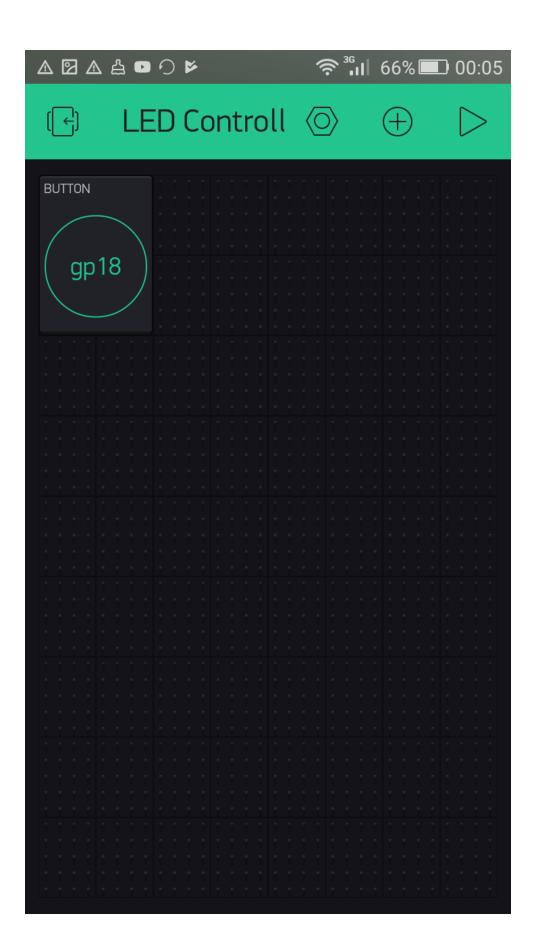


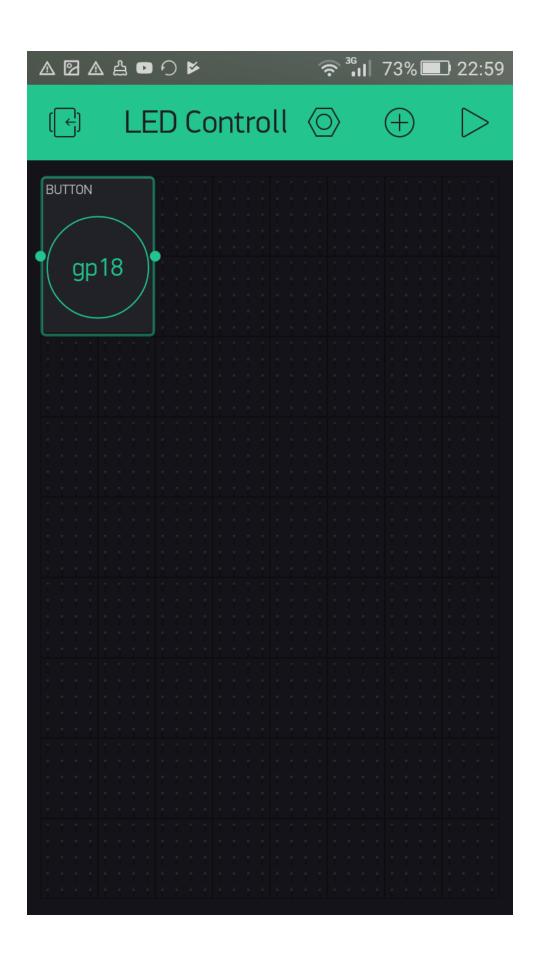


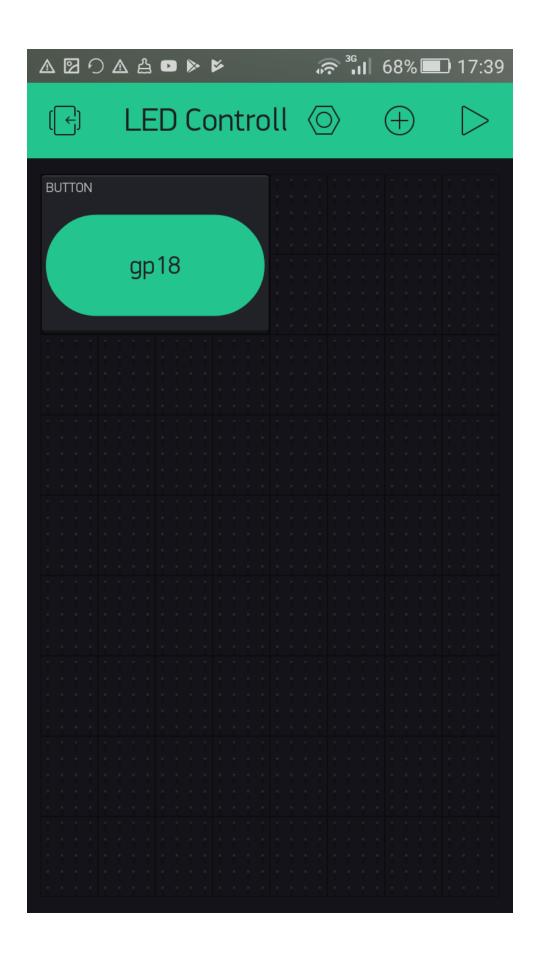


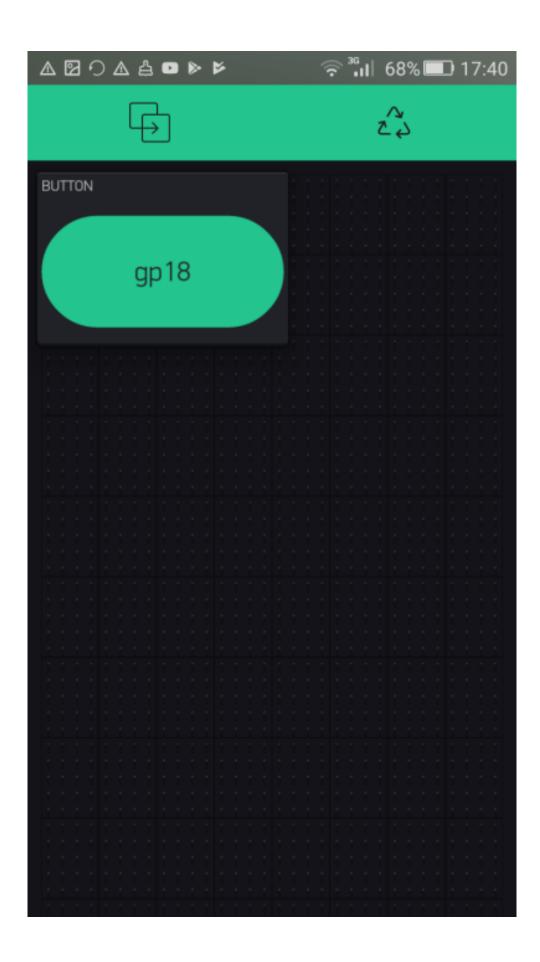


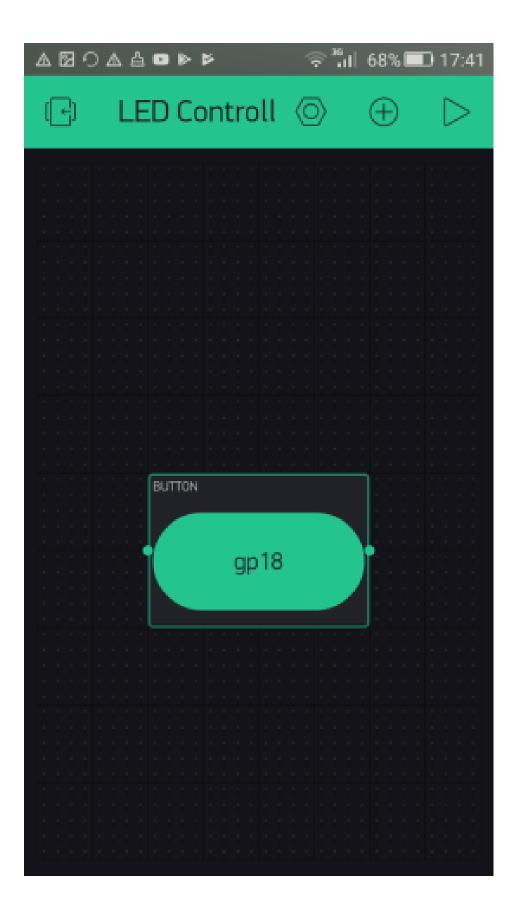


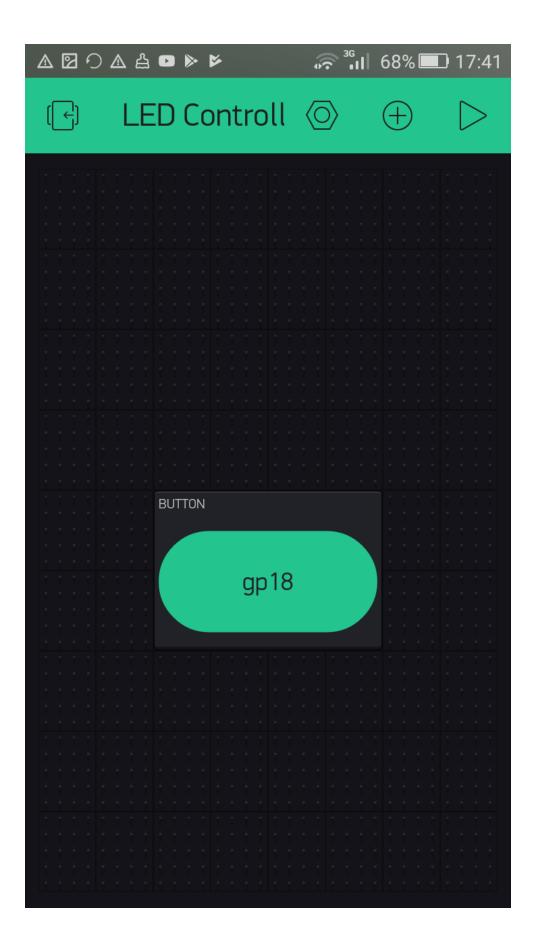


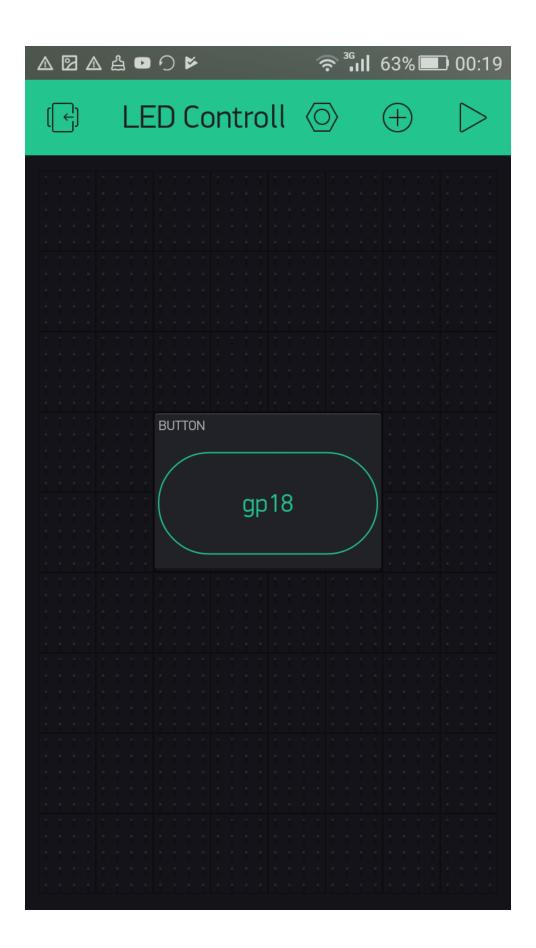


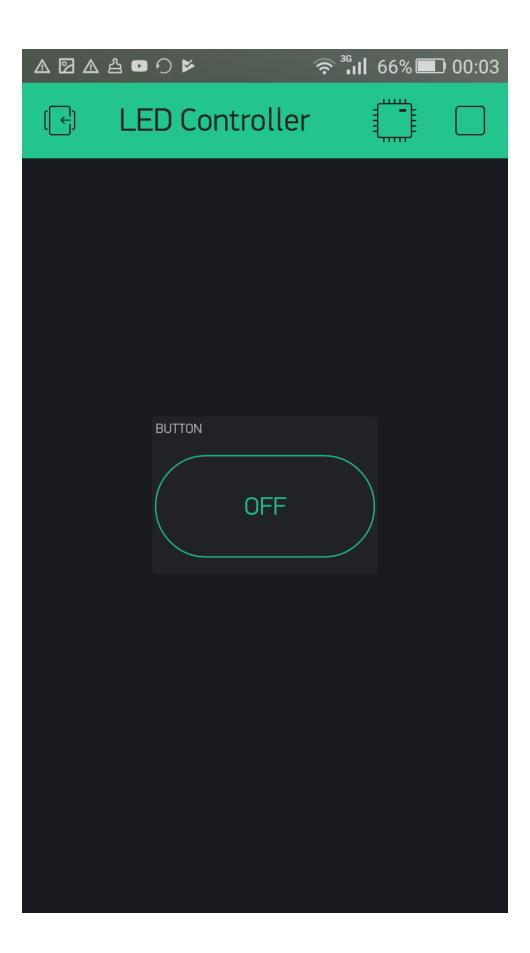


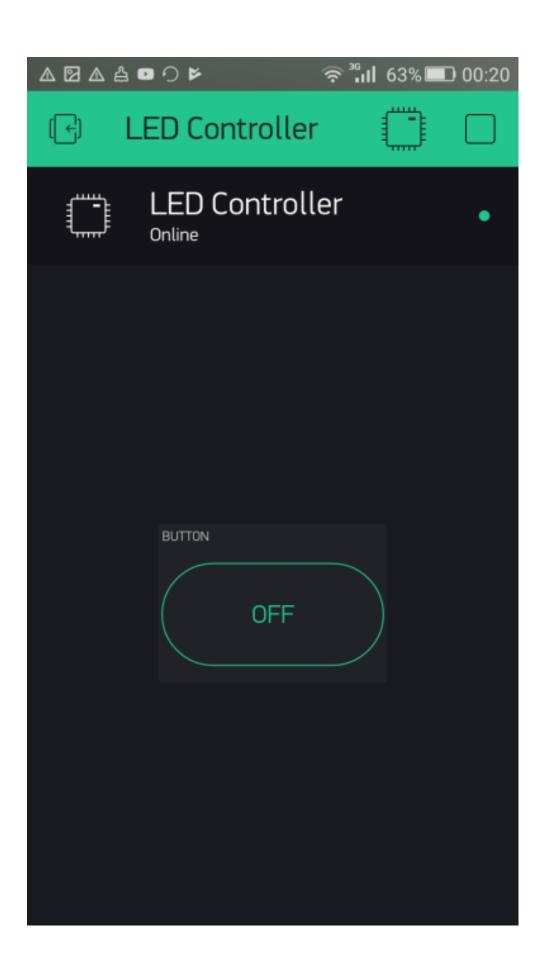


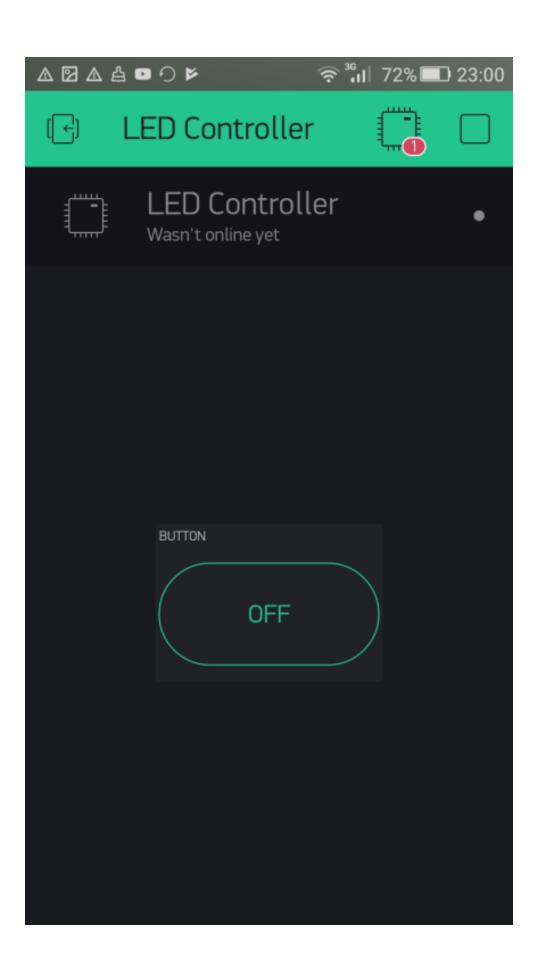


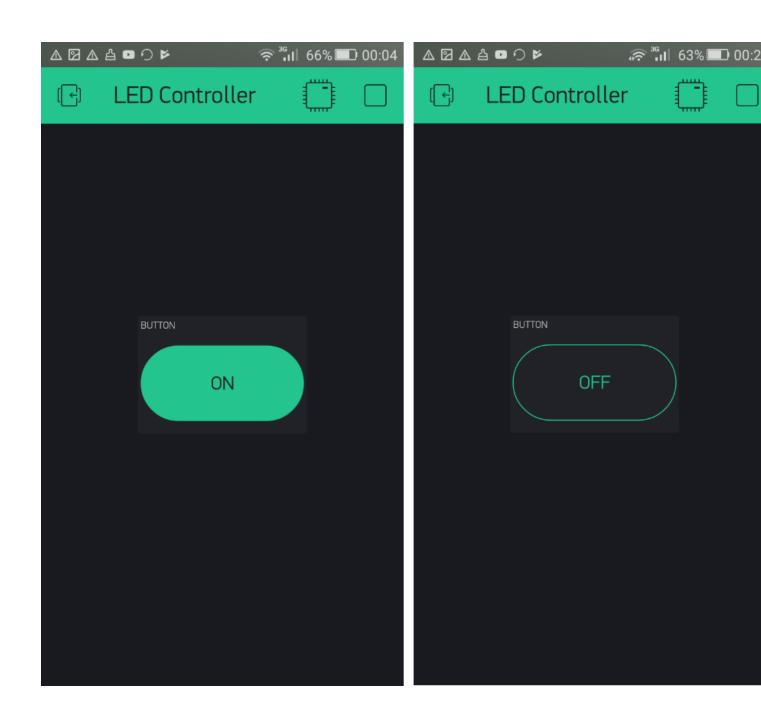


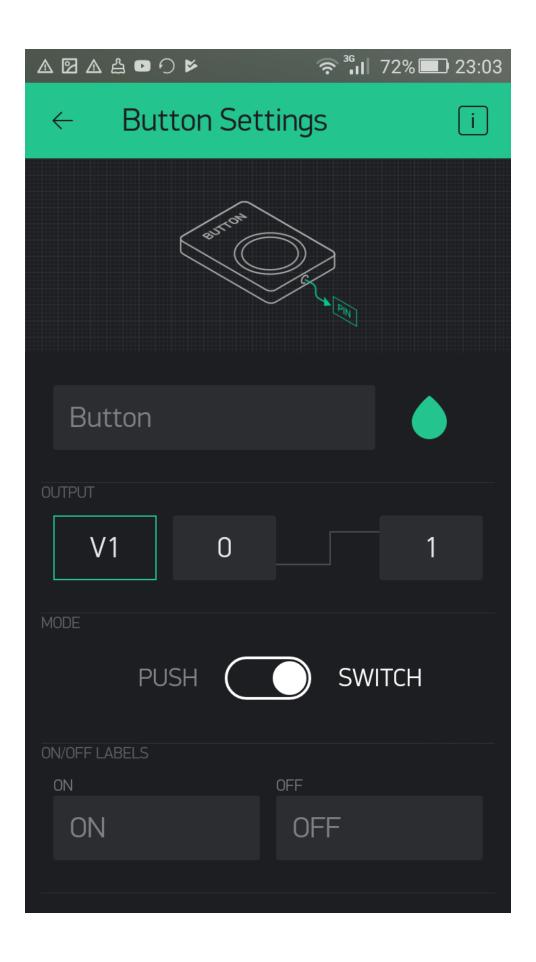


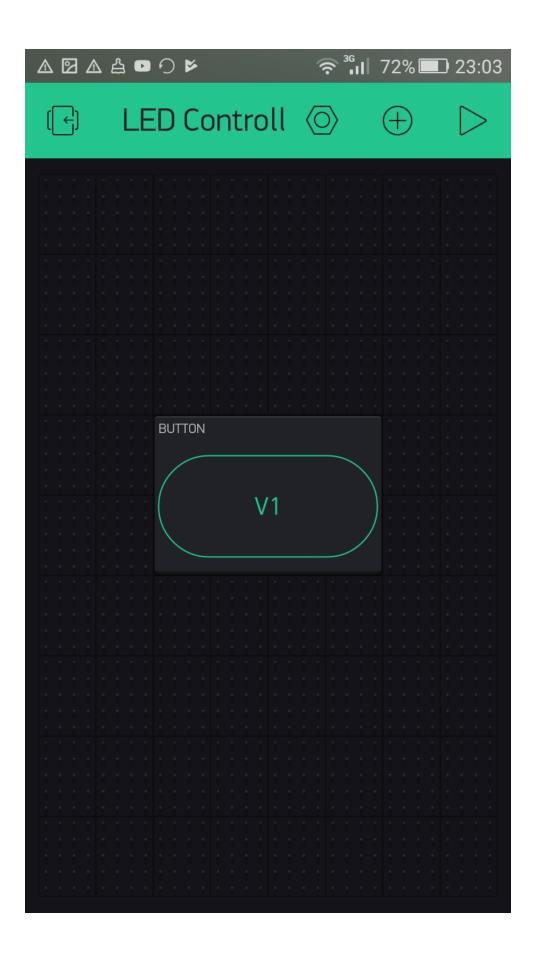




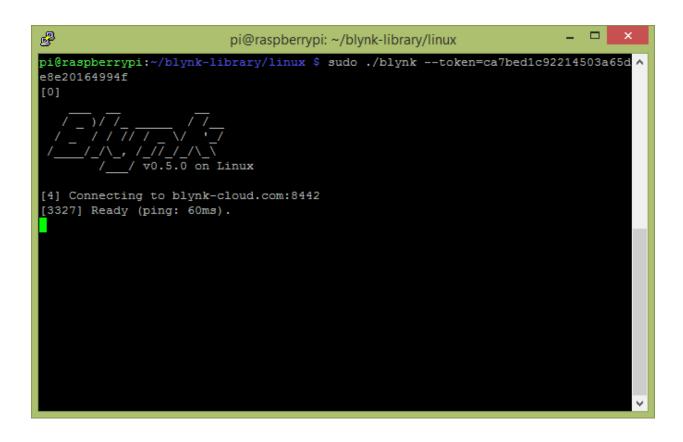


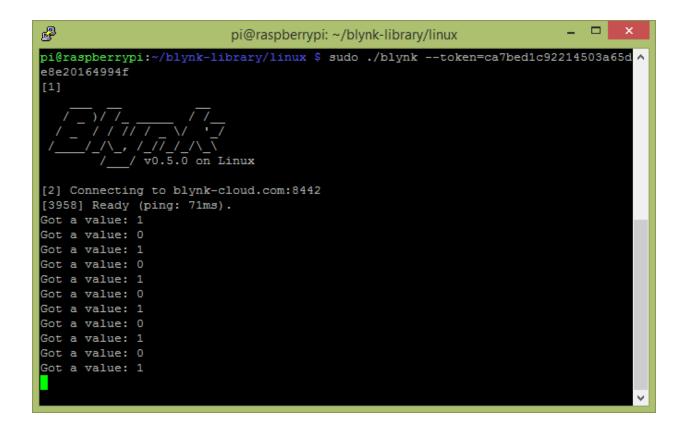




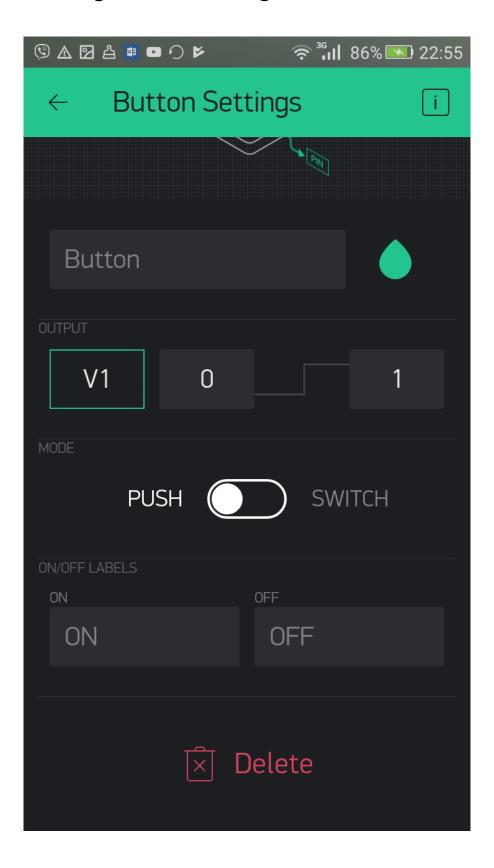


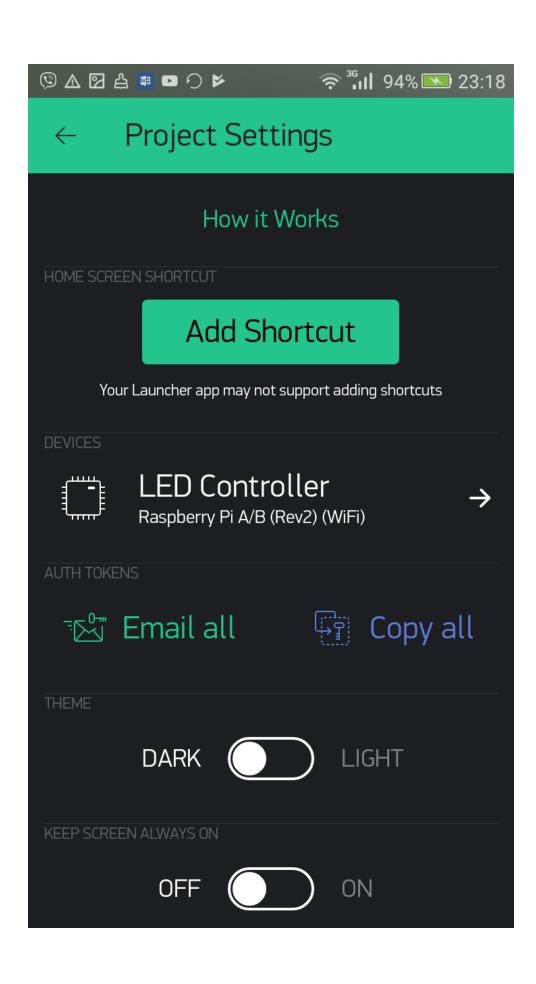
```
_ _
P
                          pi@raspberrypi: ~/blynk-library/linux
 GNU nano 2.7.4
                                    File: main.cpp
                                                                                 ۸
 * @license This project is released under the MIT License (MIT)
//#define BLYNK DEBUG
#define BLYNK_PRINT stdout
#ifdef RASPBERRY
 #include <BlynkApiWiringPi.h>
#else
 #include <BlynkApiLinux.h>
#endif
#include <BlynkSocket.h>
#include <BlynkOptionsParser.h>
static BlynkTransportSocket _blynkTransport;
BlynkSocket Blynk( blynkTransport);
                                       ^K Cut Text
             ^O Write Out ^W Where Is
                                                    ^J Justify
                                                                 ^C Cur Pos
^G Get Help
               Read File
                             Replace
                                         Uncut Text^T
                                                                    Go To Line
```

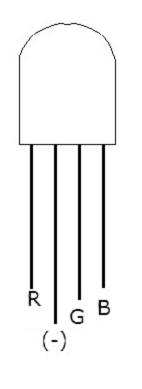


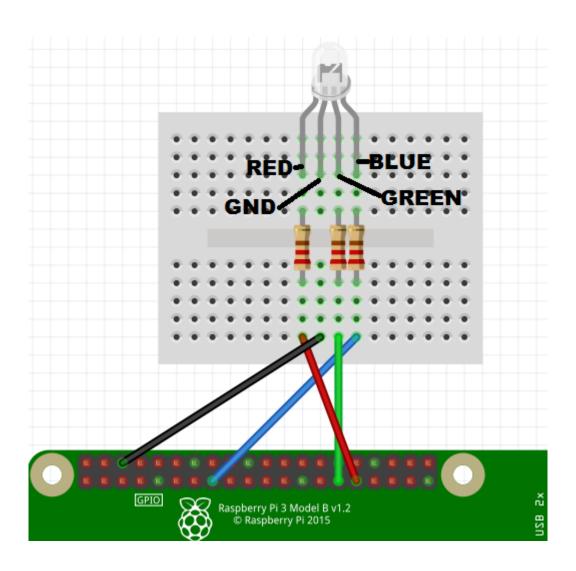


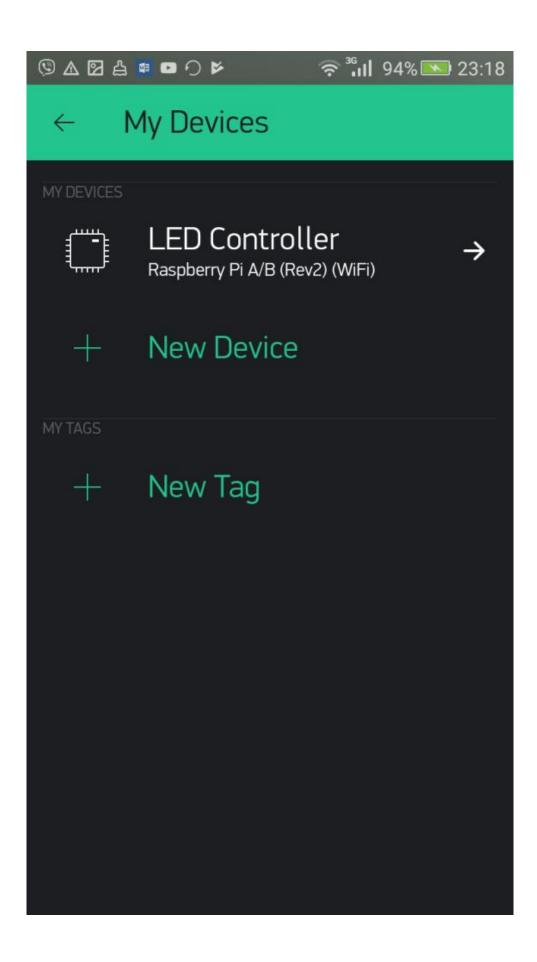
Chapter 3: Using Controller Widgets

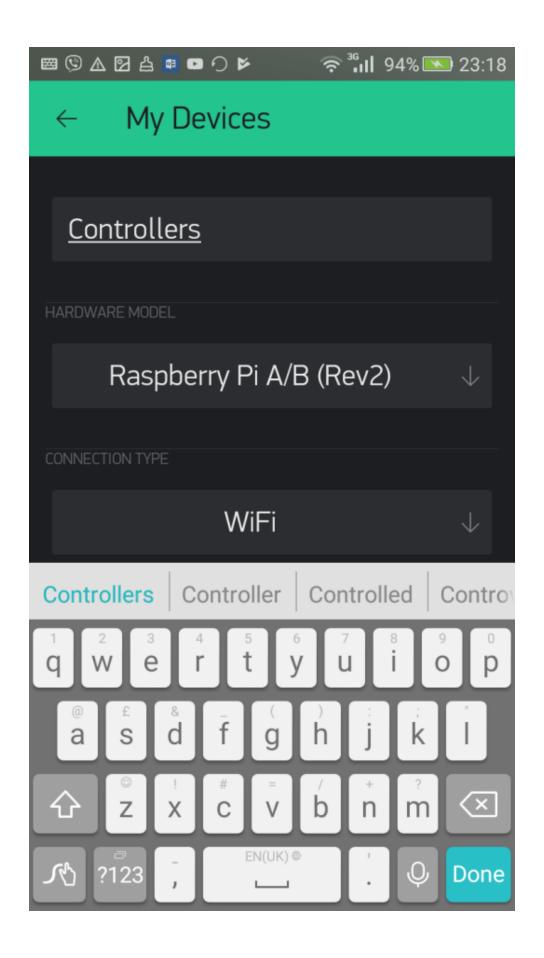


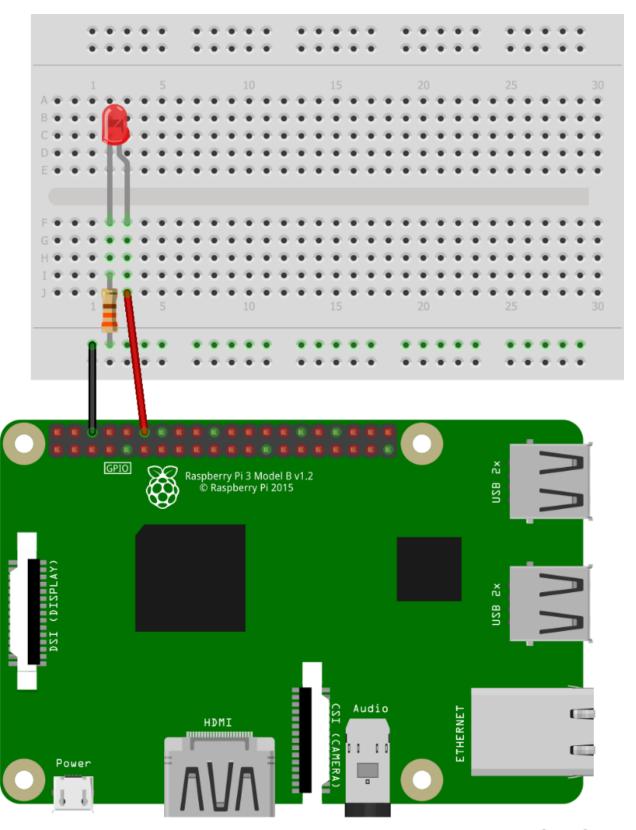




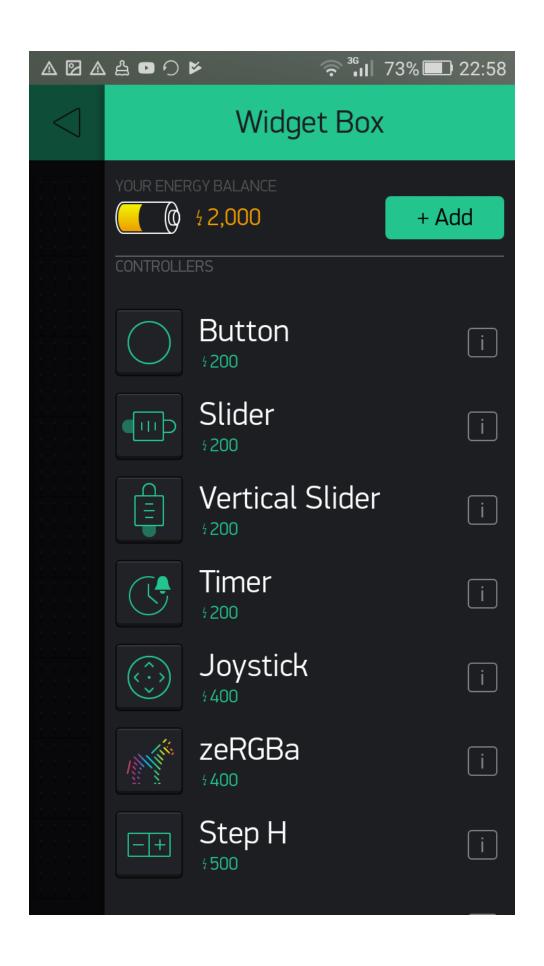


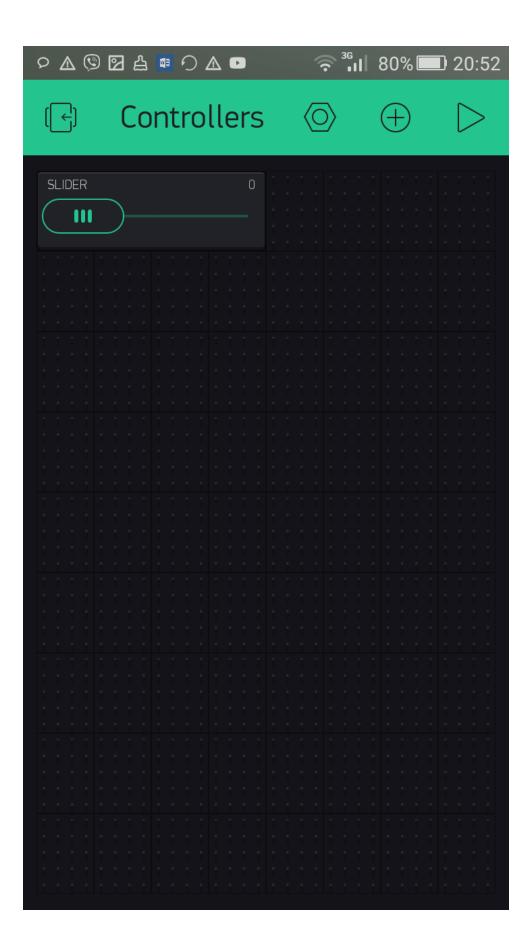


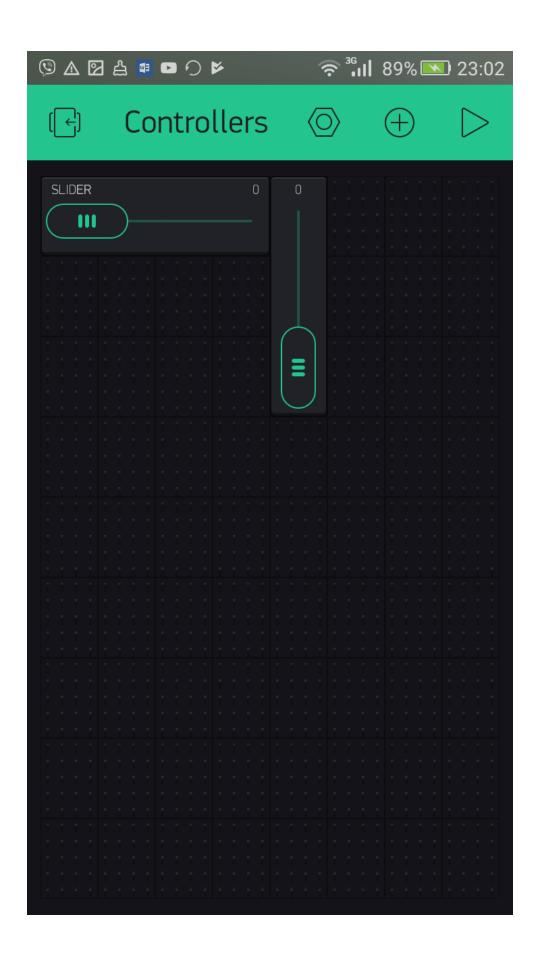


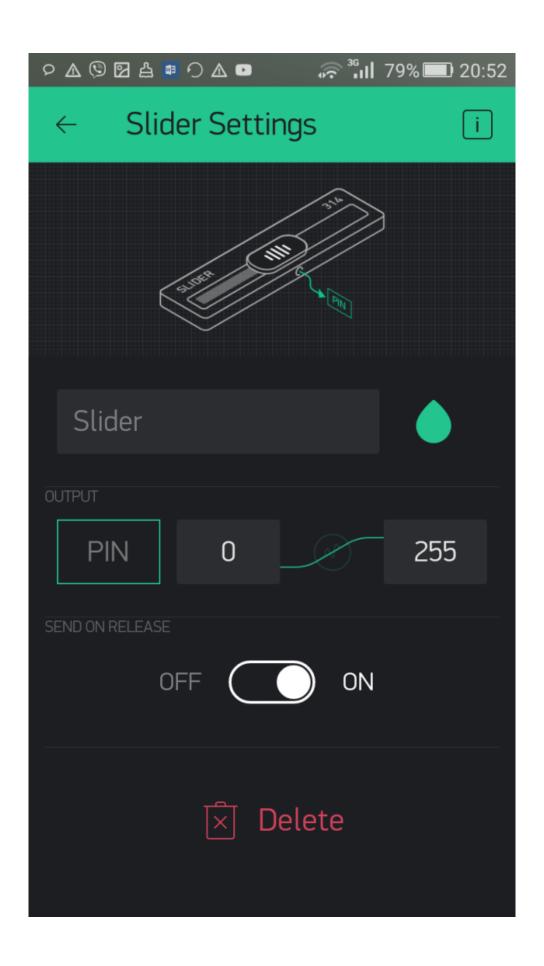


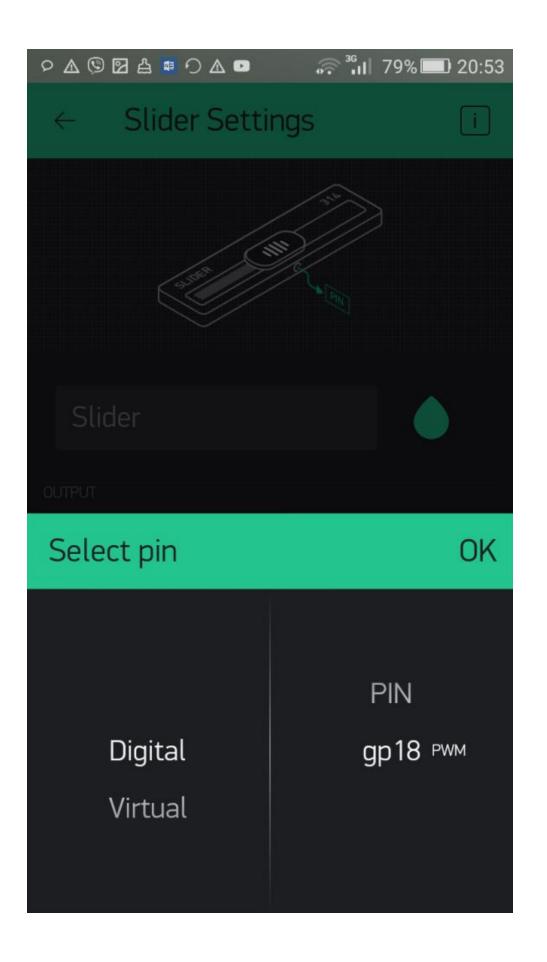
fritzing

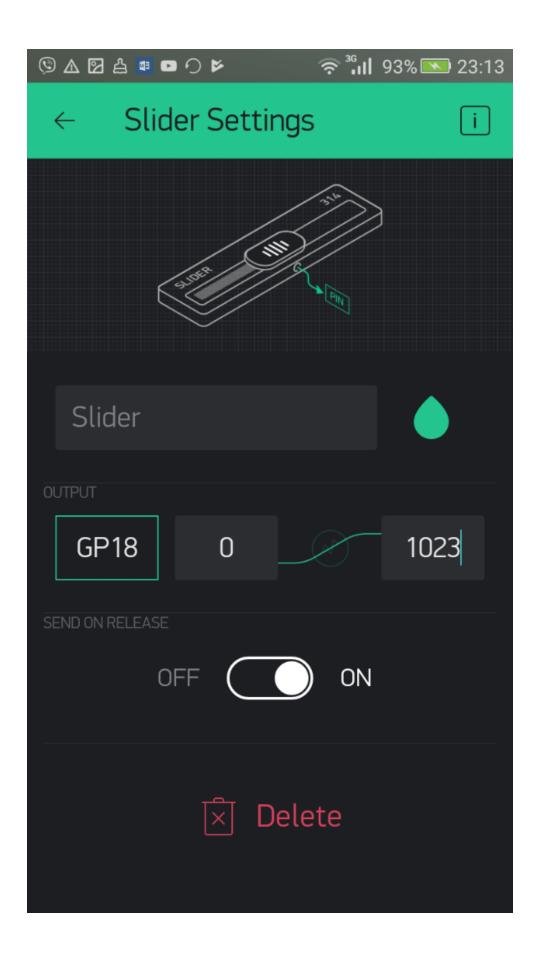


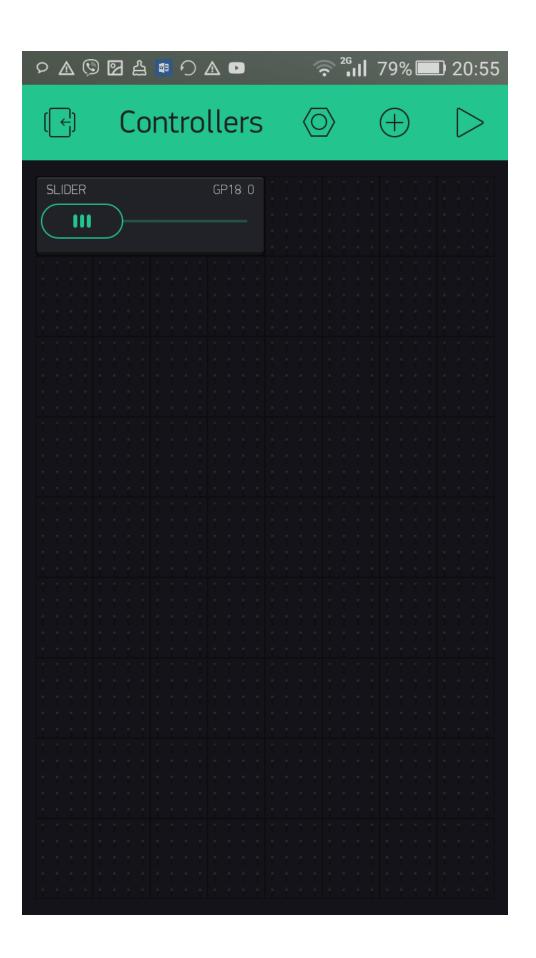


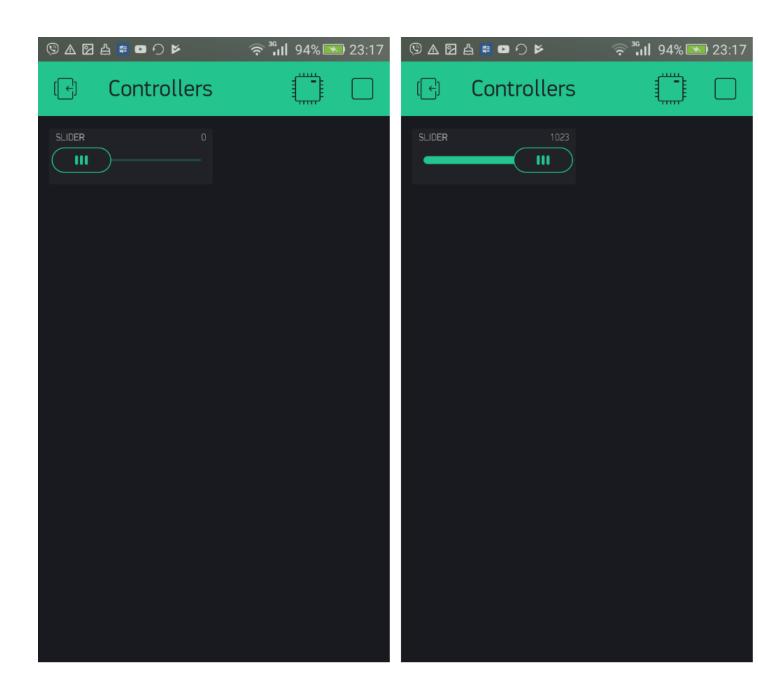


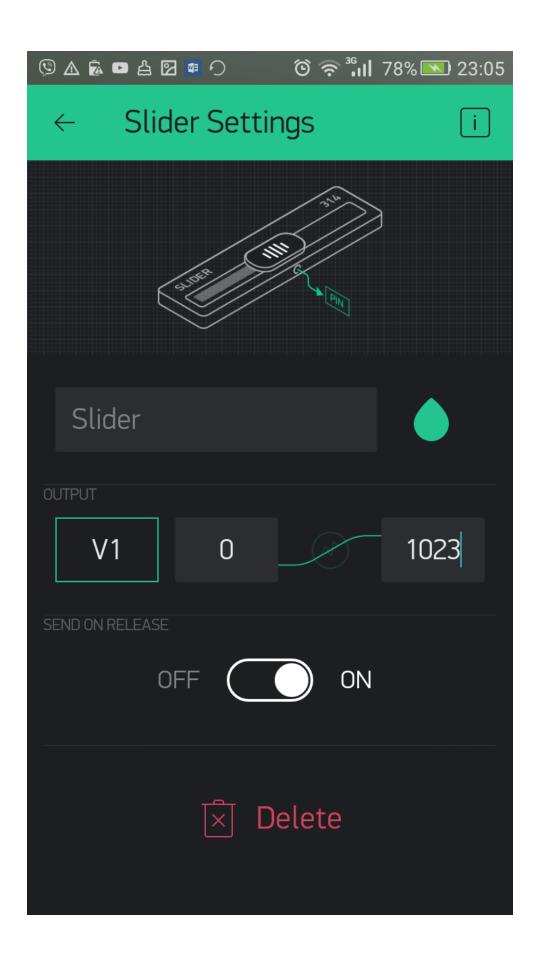


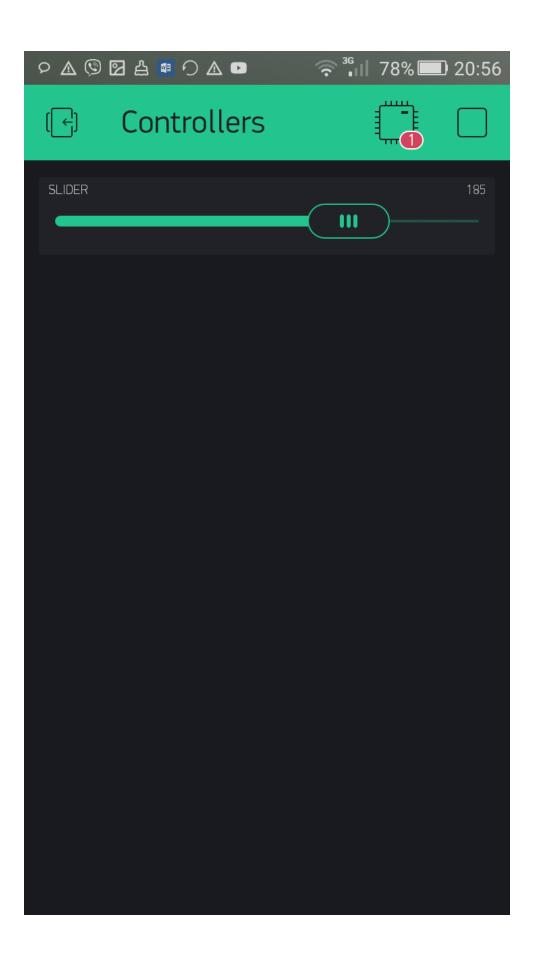


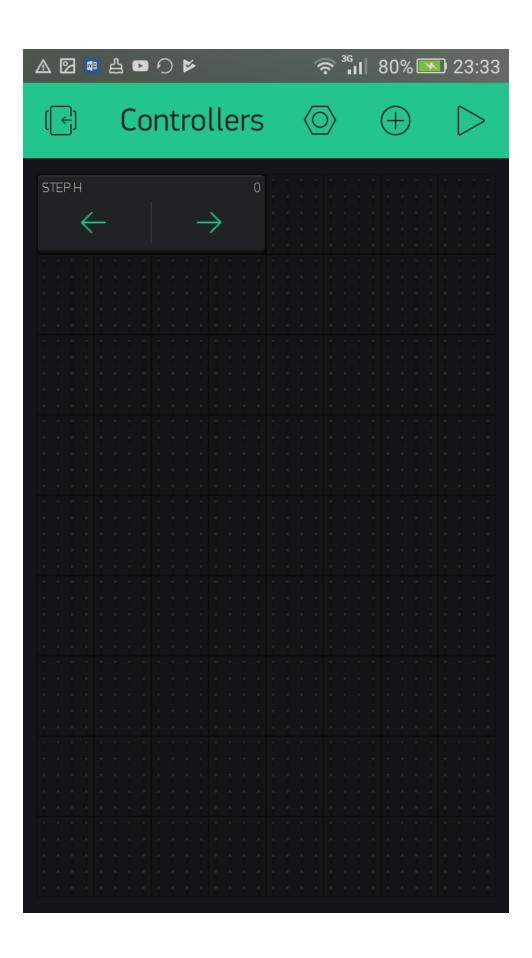


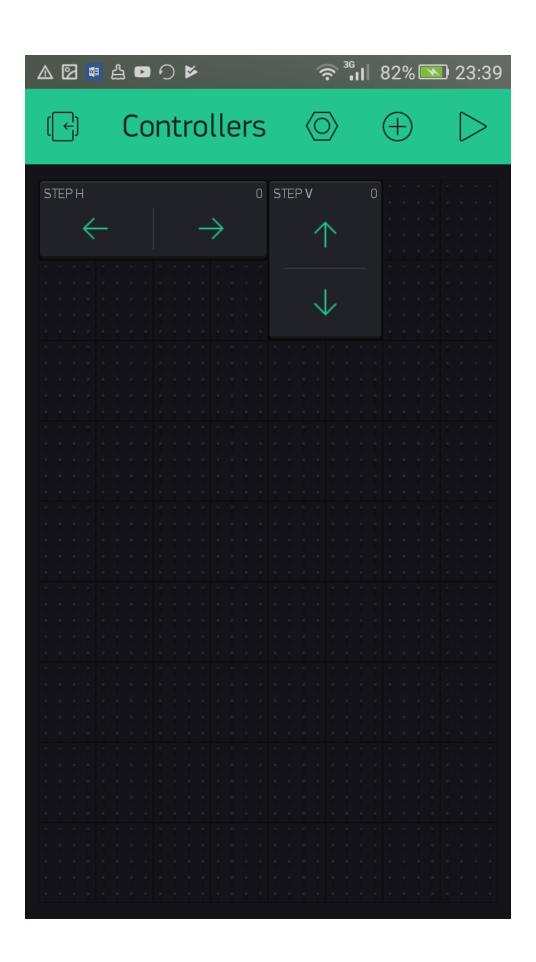


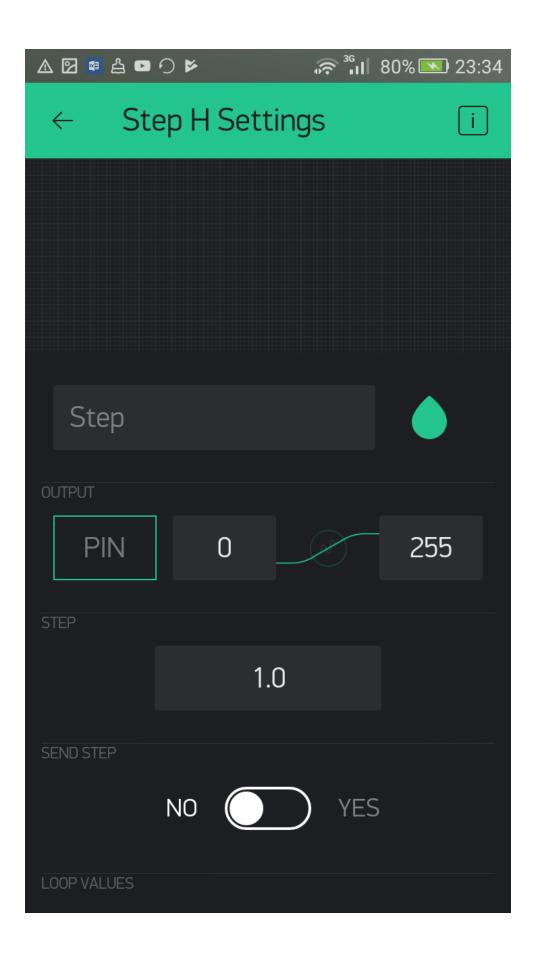


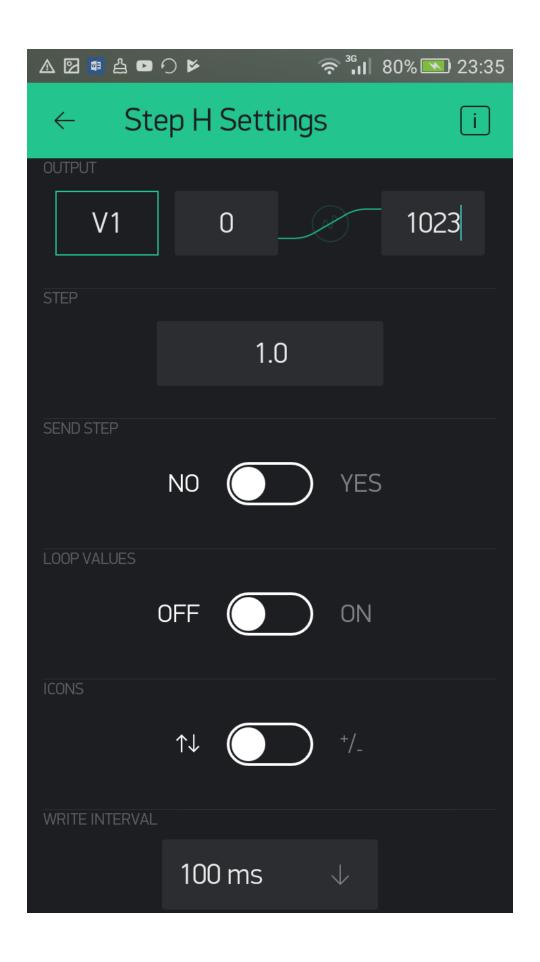




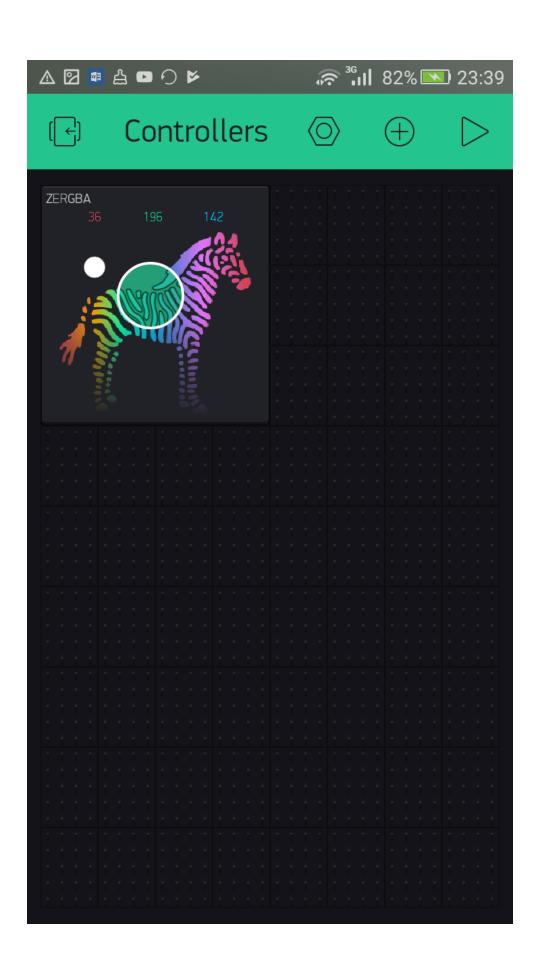


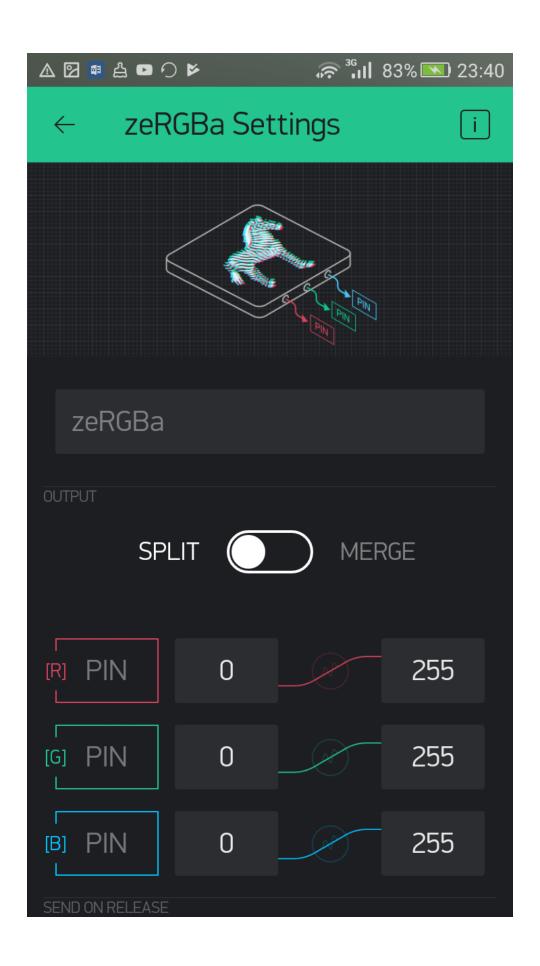


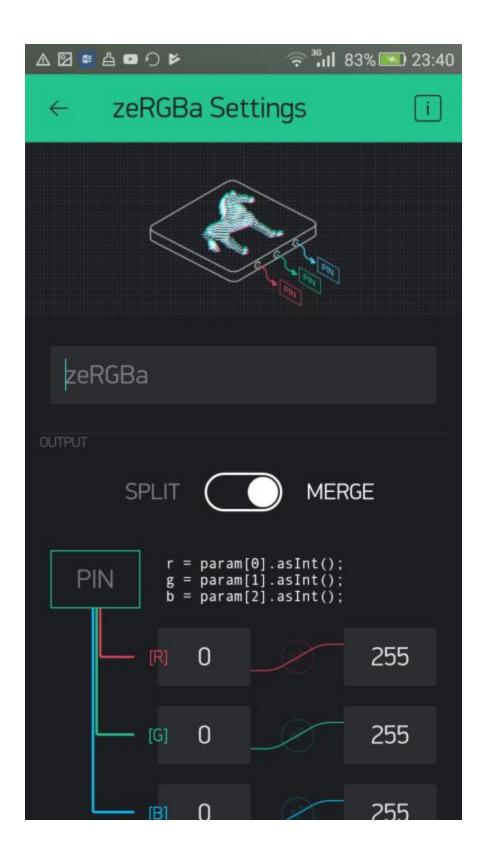


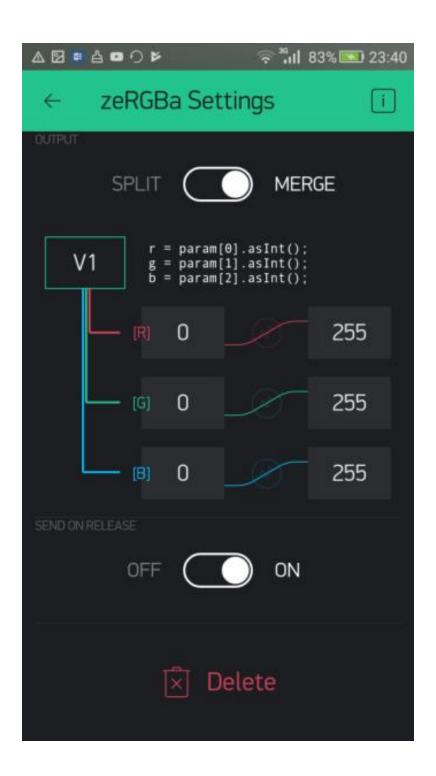


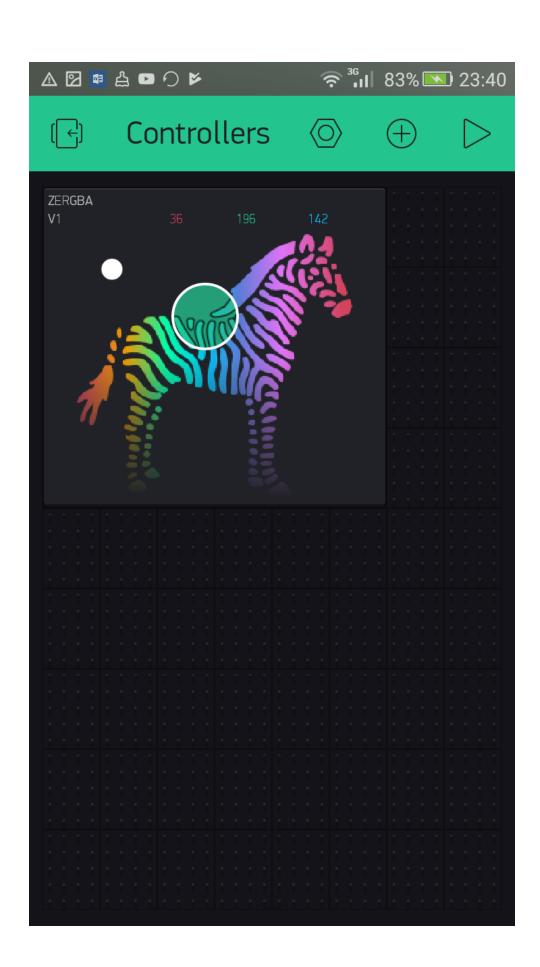


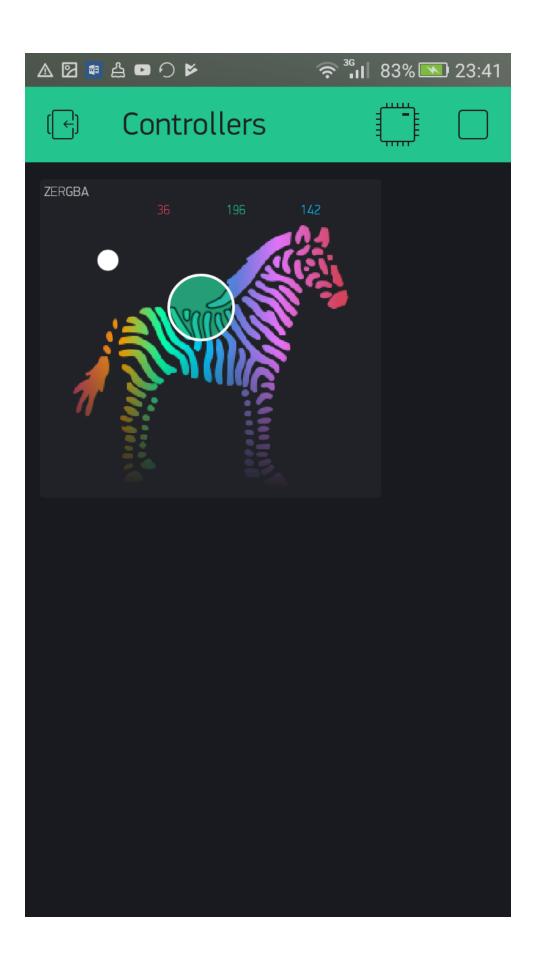


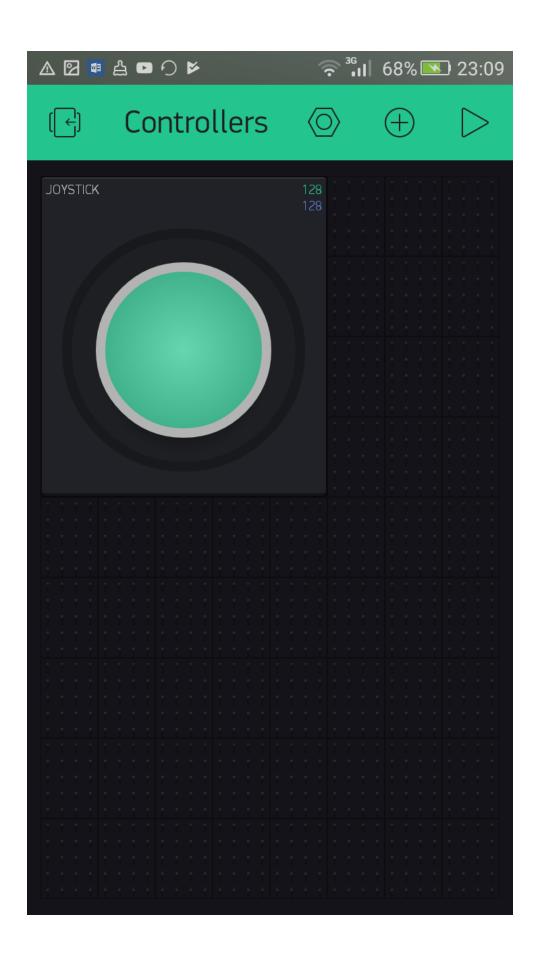


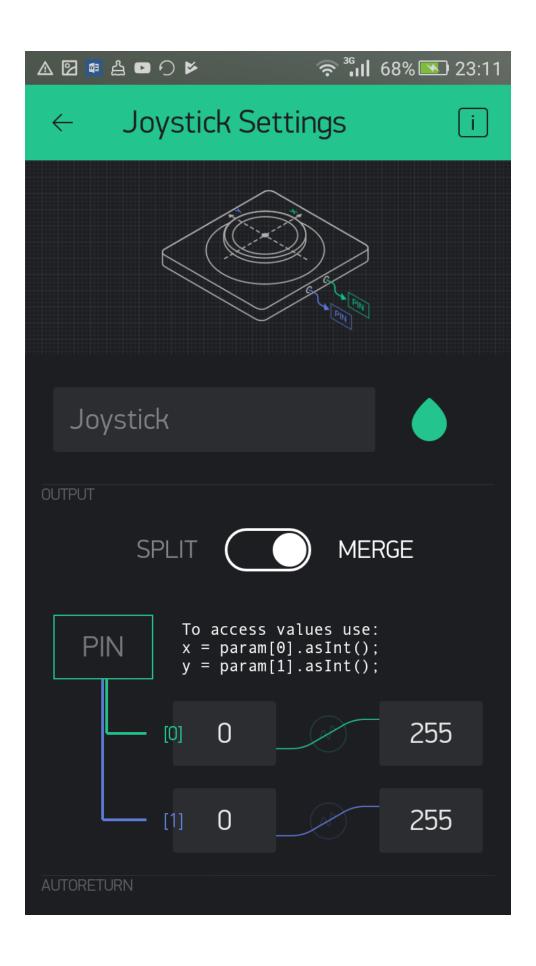


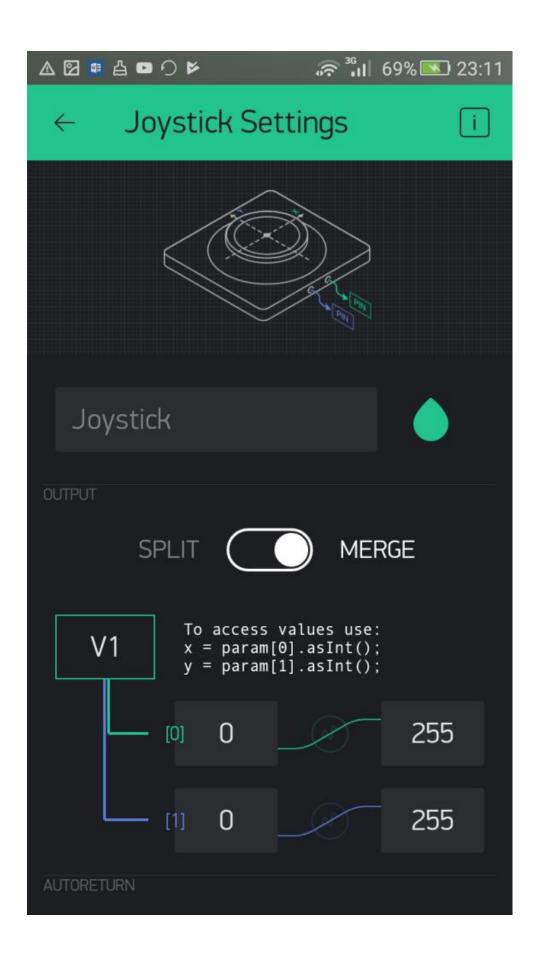


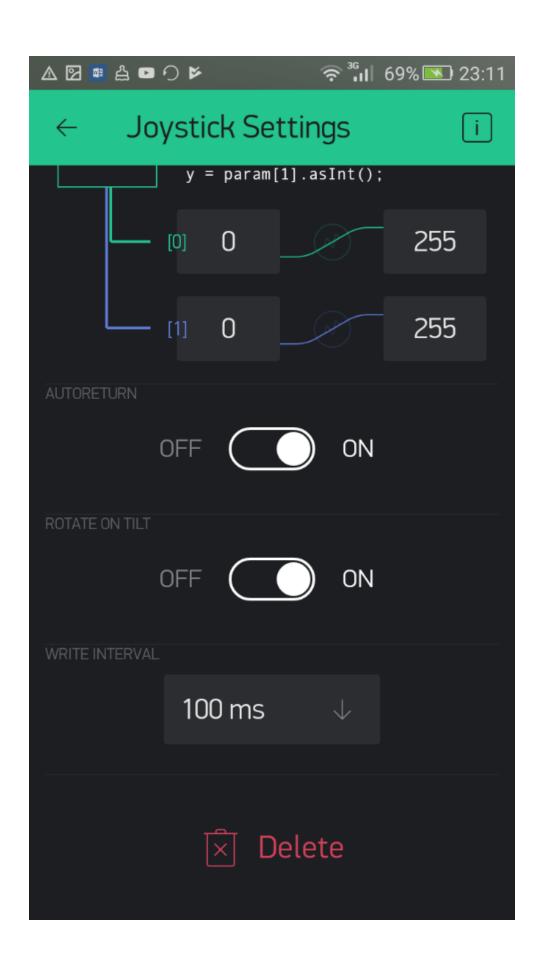


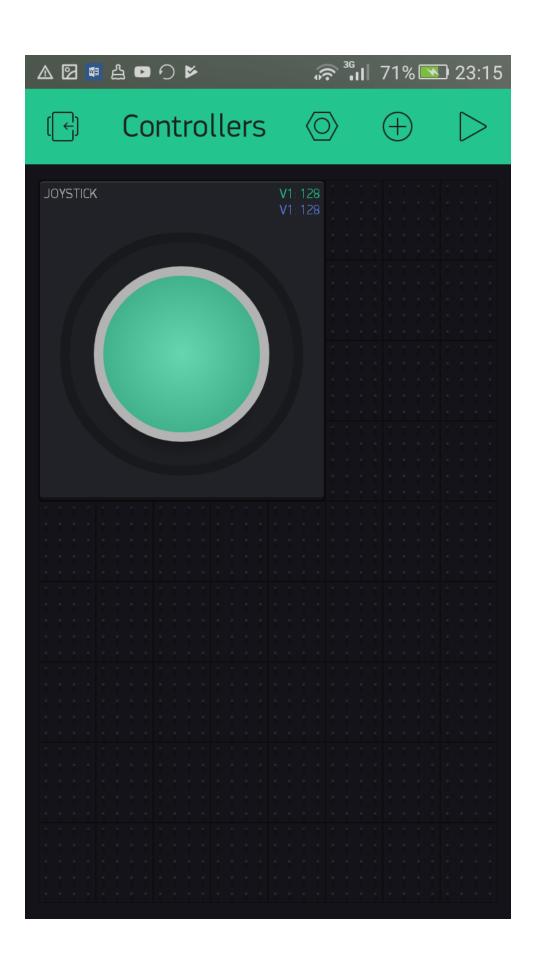


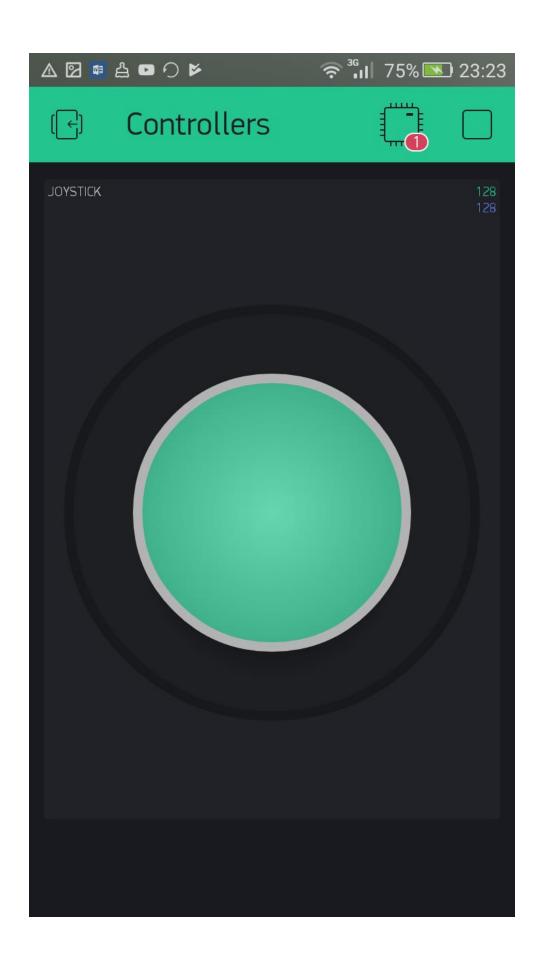


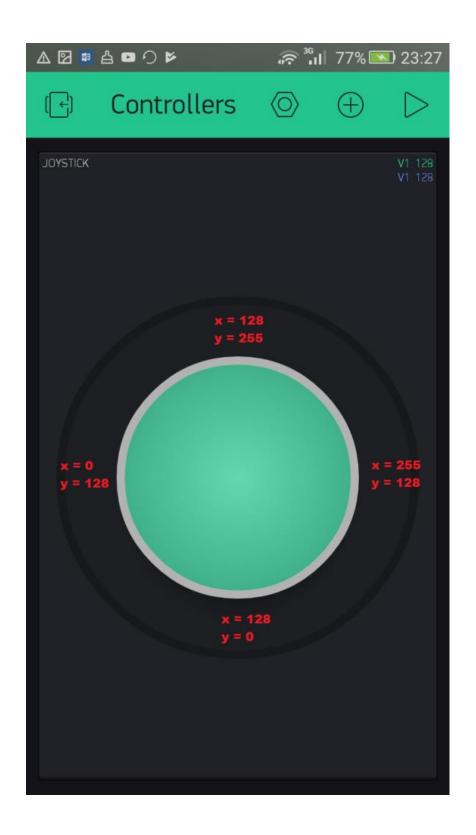




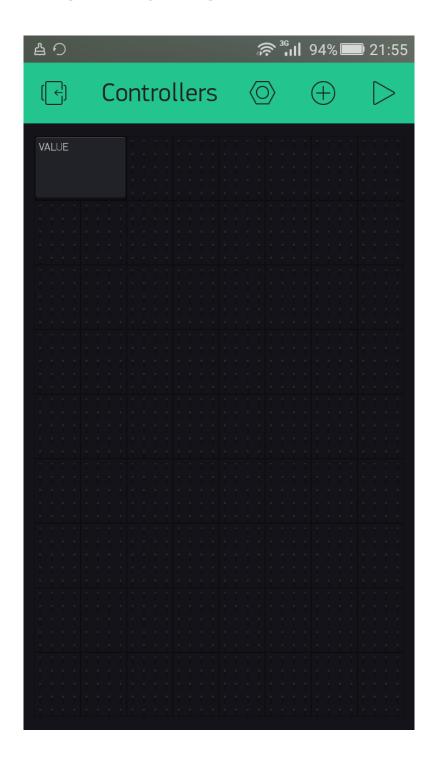


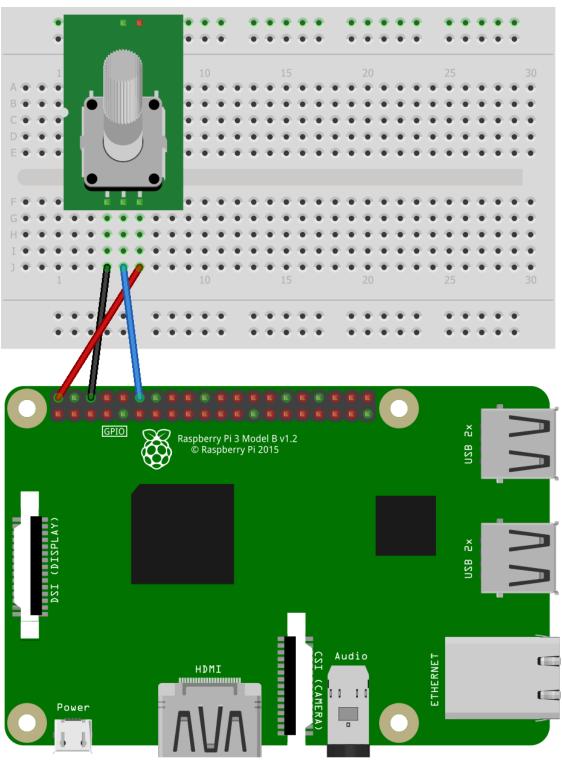




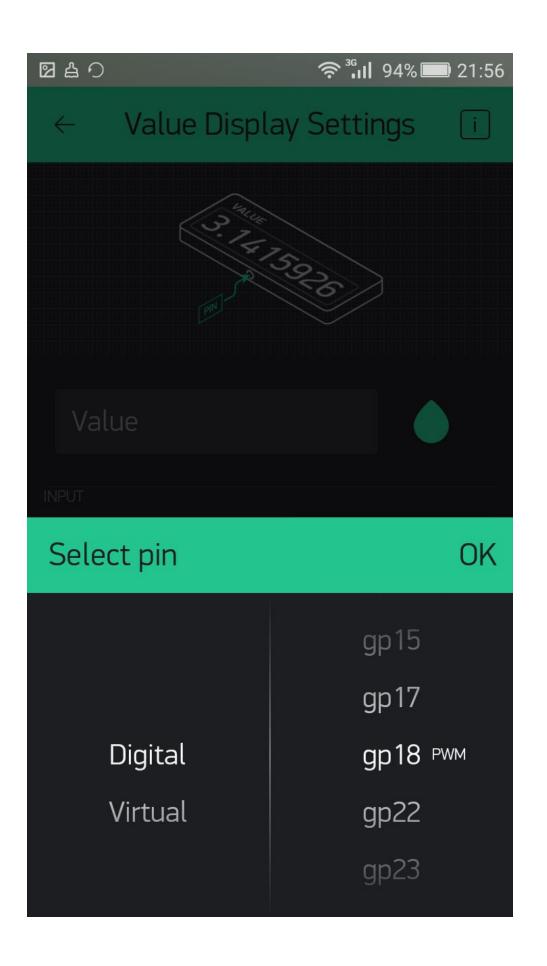


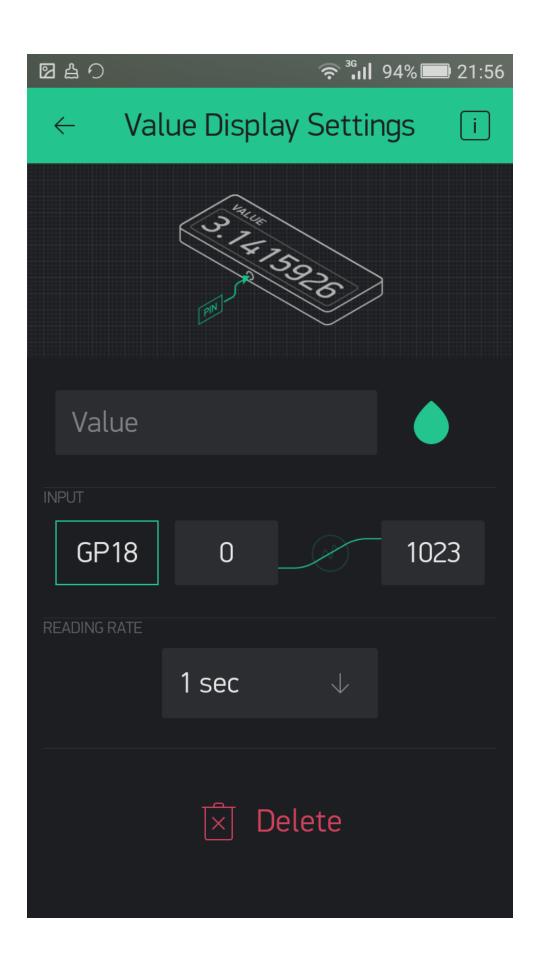
Chapter 4: Using Display Widgets

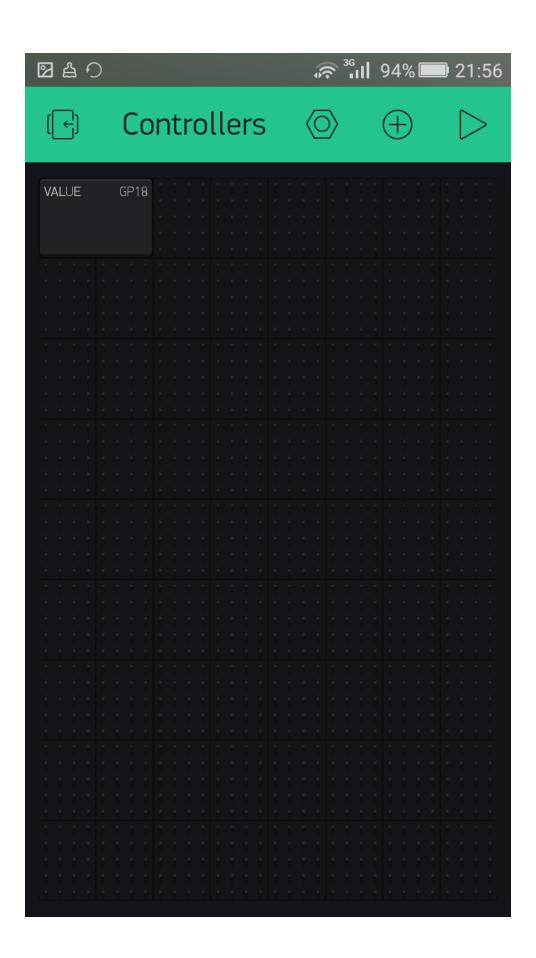


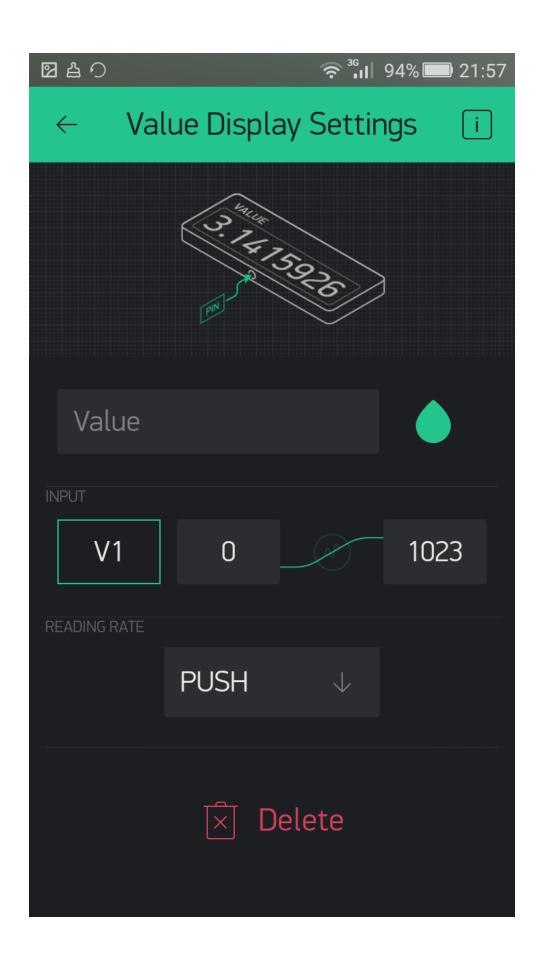


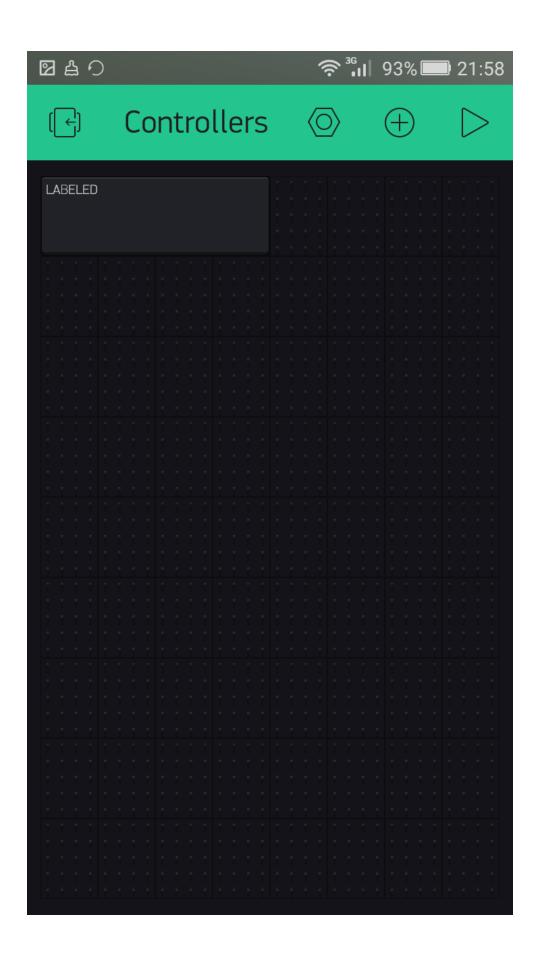
fritzing

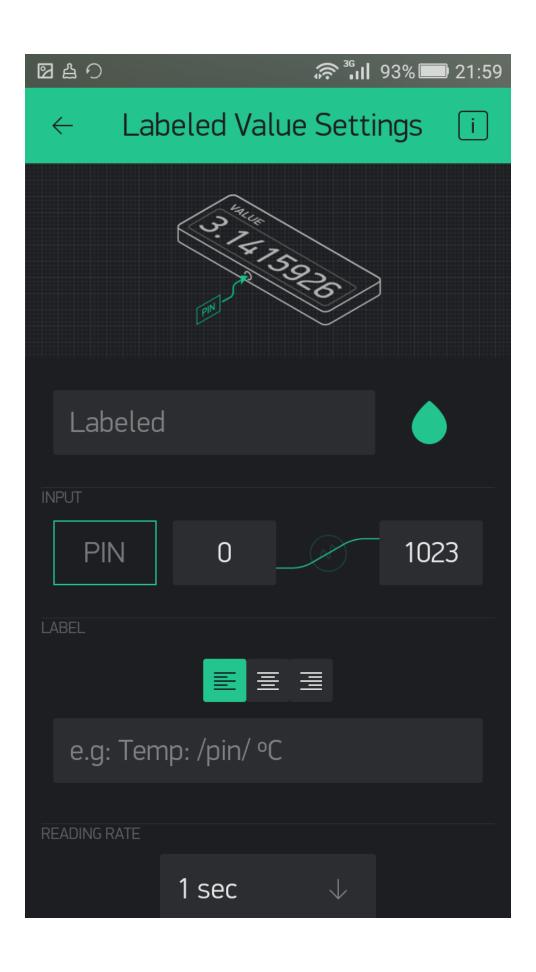


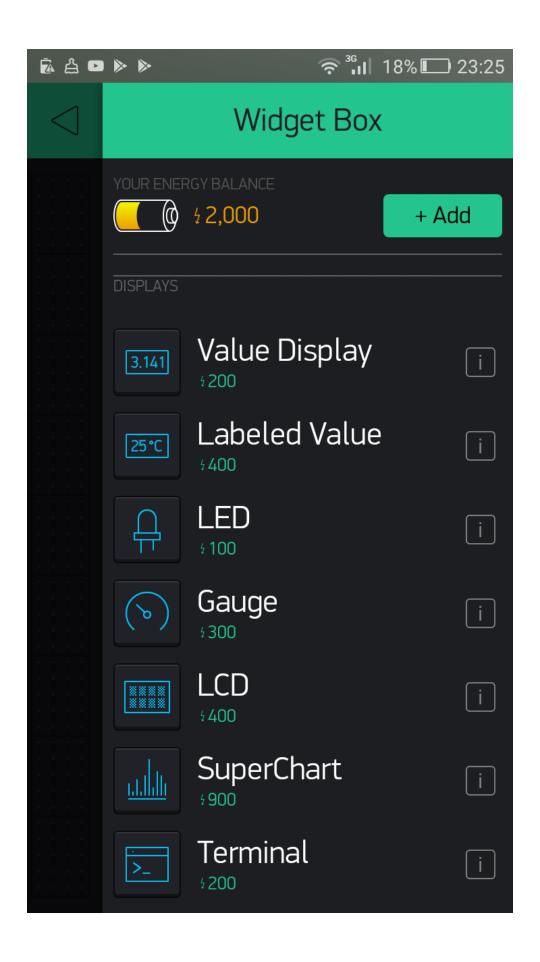


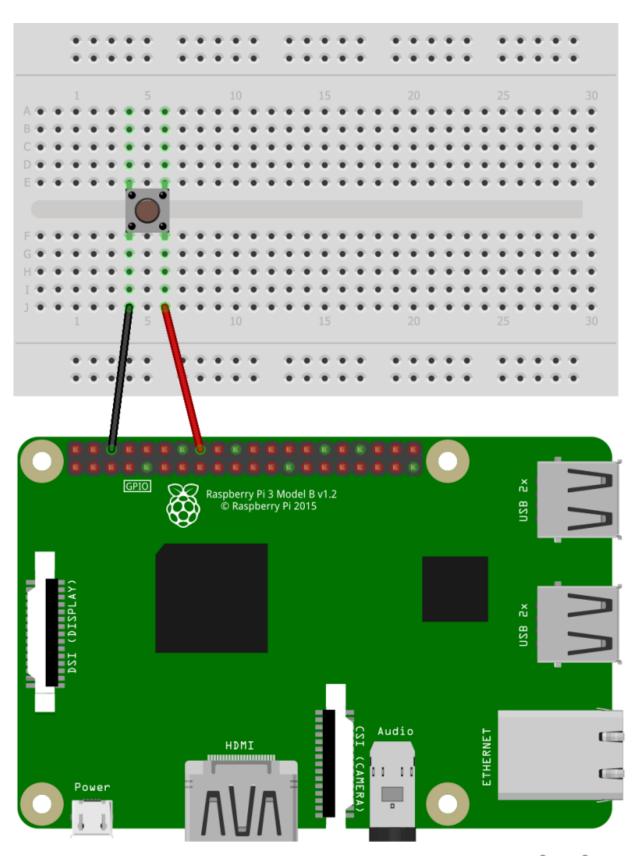




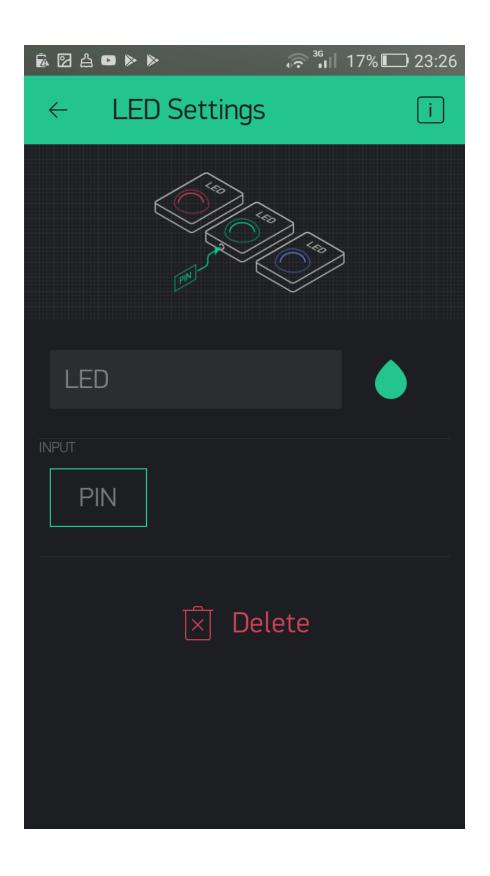




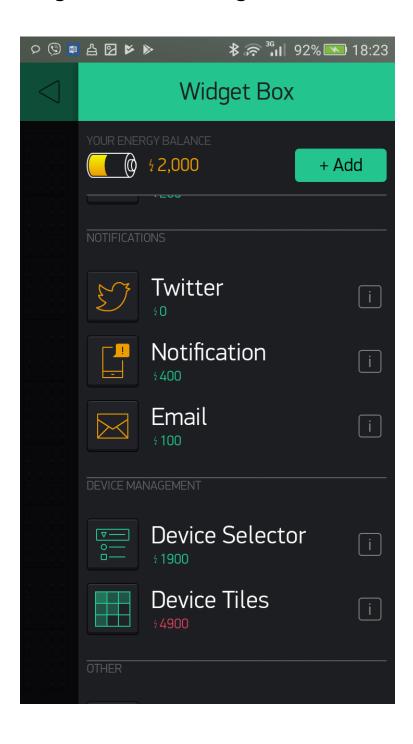


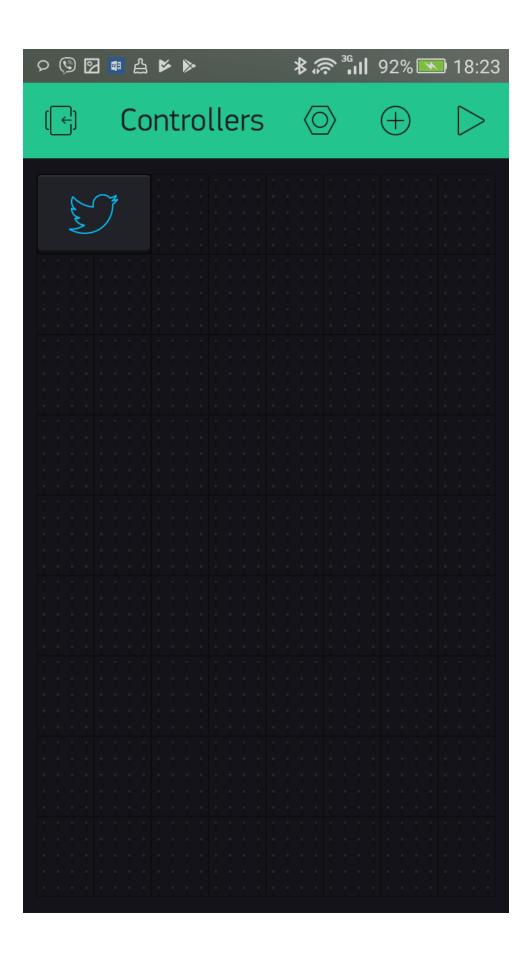


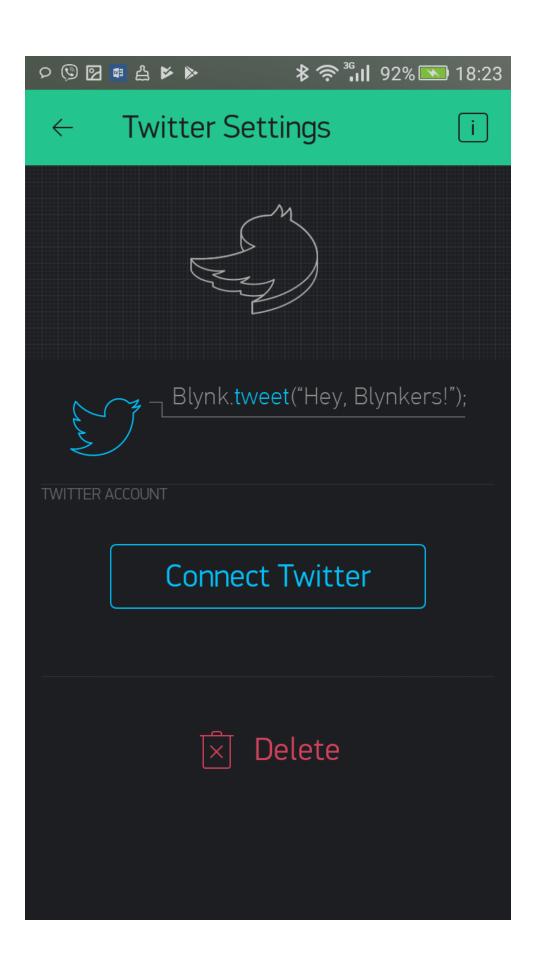
fritzing



Chapter 5: Using Notification Widgets













Sign up for Twitter >

Authorise The Blynk to use your account?



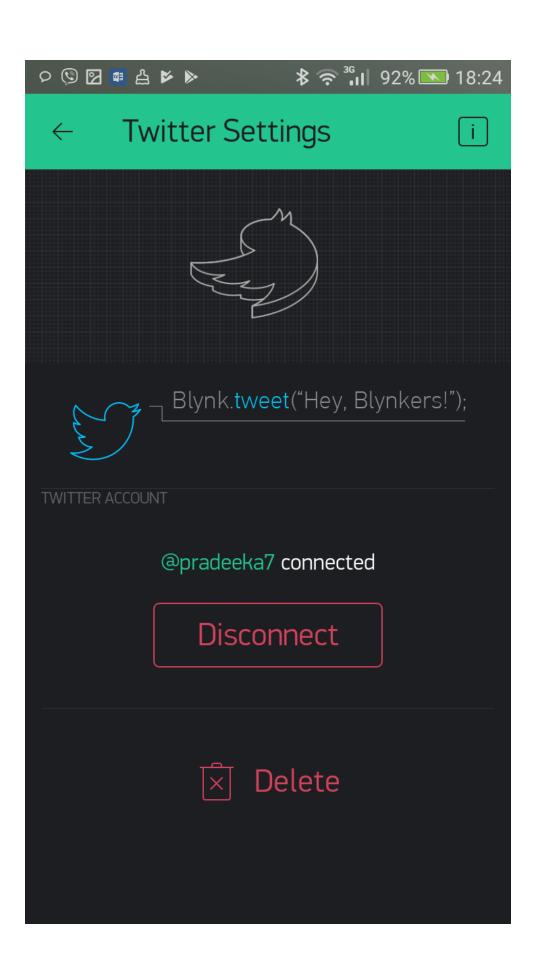
pradeeka7						
•••••						
₹ Remember me · Forgot password?						
Authorise app	Cancel					

This application will be able to:

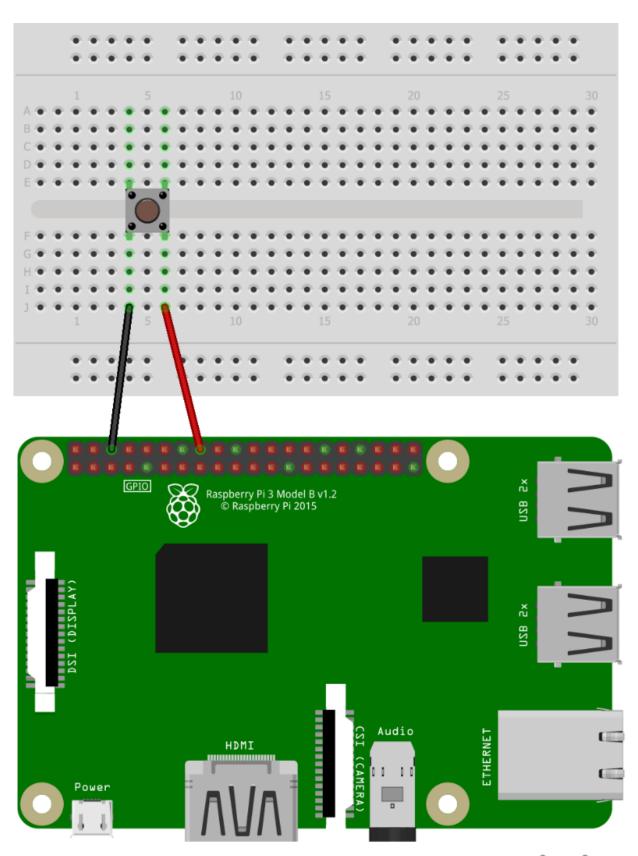
- Read Tweets from your timeline.
- See who you follow, and follow new people.
- Update your profile.
- · Post Tweets for you.

Will not be able to:

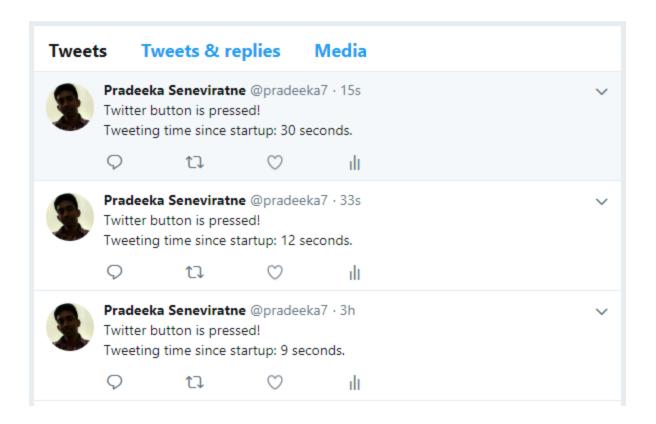
· Access your direct messages.

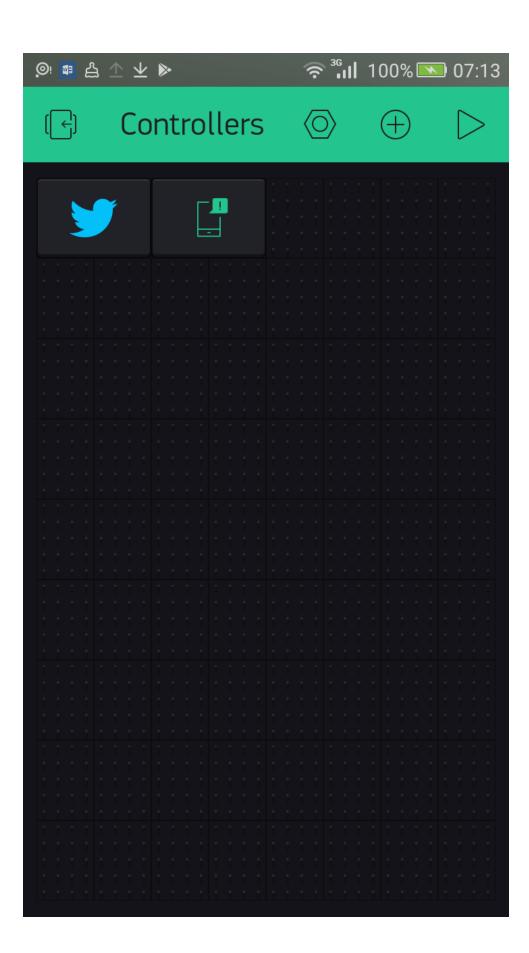


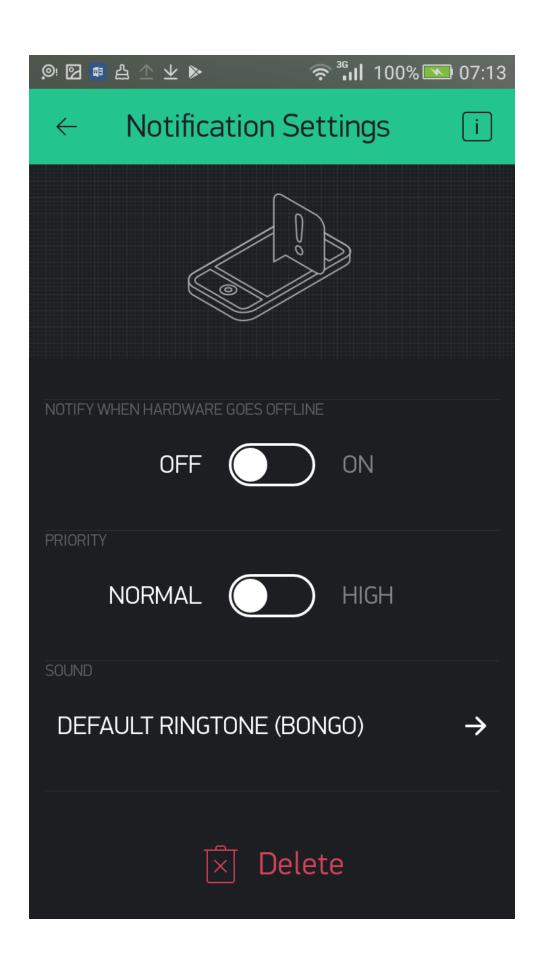
Twee	ts Twe	eets & rep	olies N	/ledia				
3	~							
	\Diamond	tī.	\bigcirc	ılı				
3	Pradeeka Seneviratne @pradeeka7 · 4h My Raspberry Pi is tweeting using @blynk_app and it's awesome! Tweeting time scince startup: 90 seconds.							
	\Diamond	t ⊋	\bigcirc	dt				
3	and it's awesome!	~						
	\Diamond	tī	\bigcirc	ılı				
3	~							
	Q	tℷ	\bigcirc	ılı				

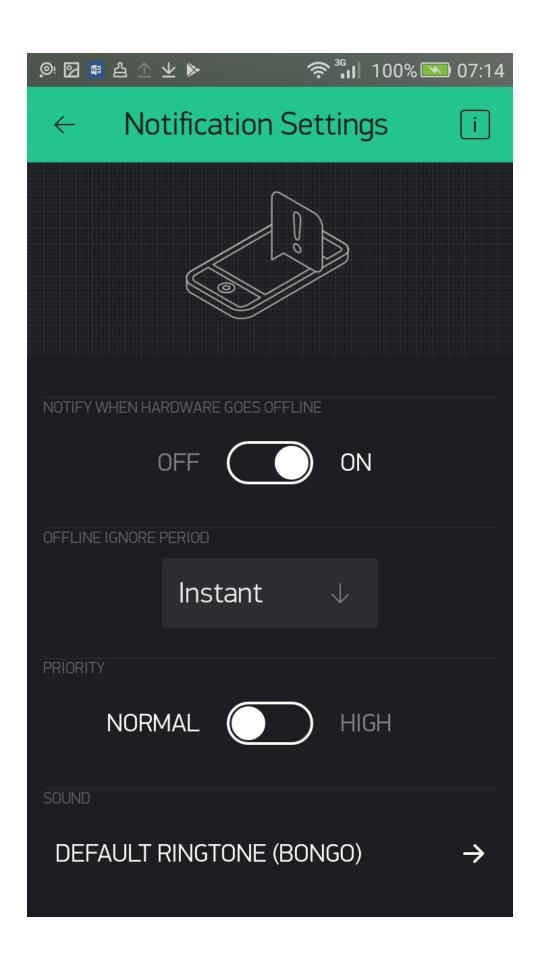


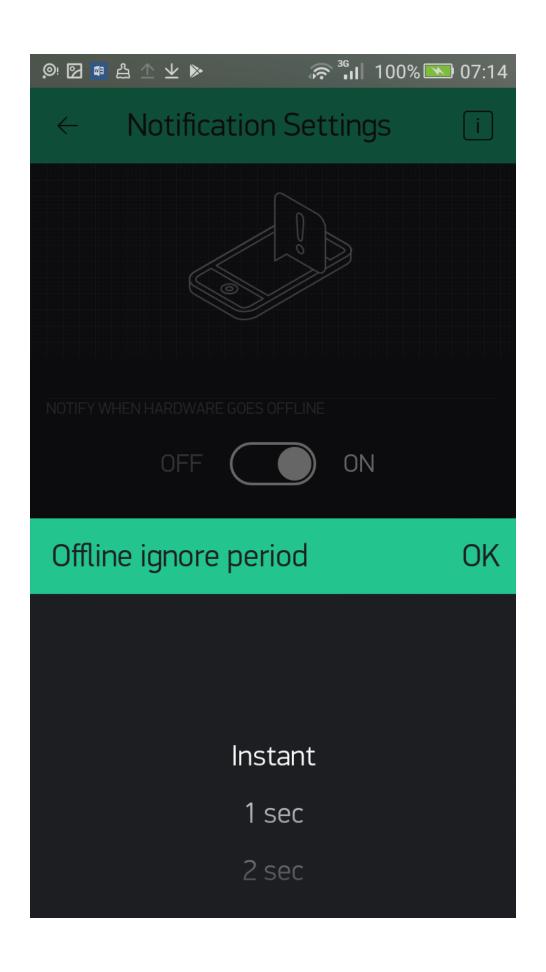
fritzing

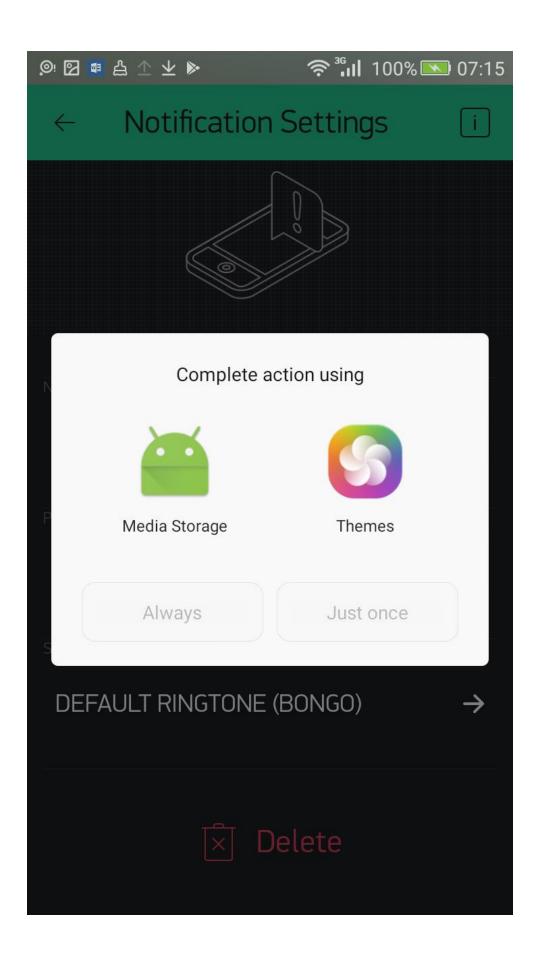


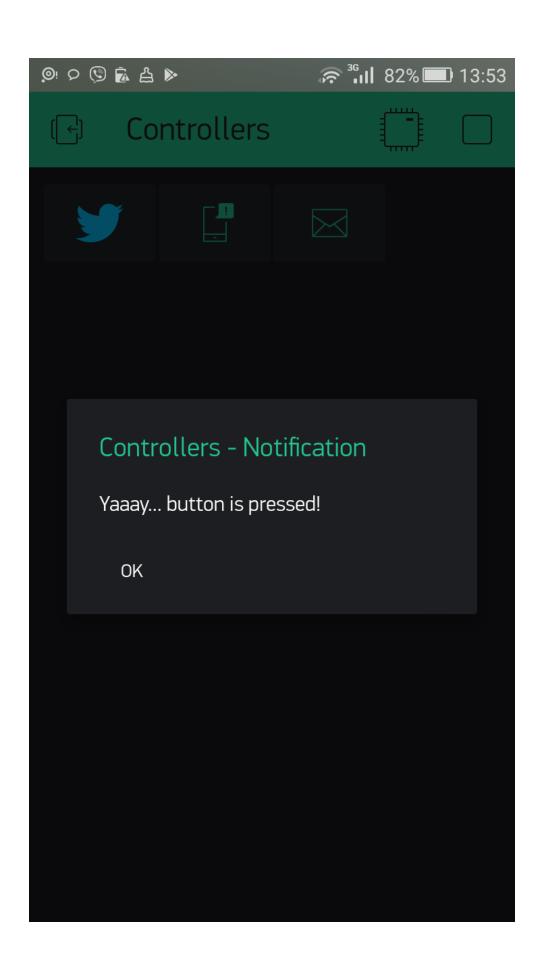


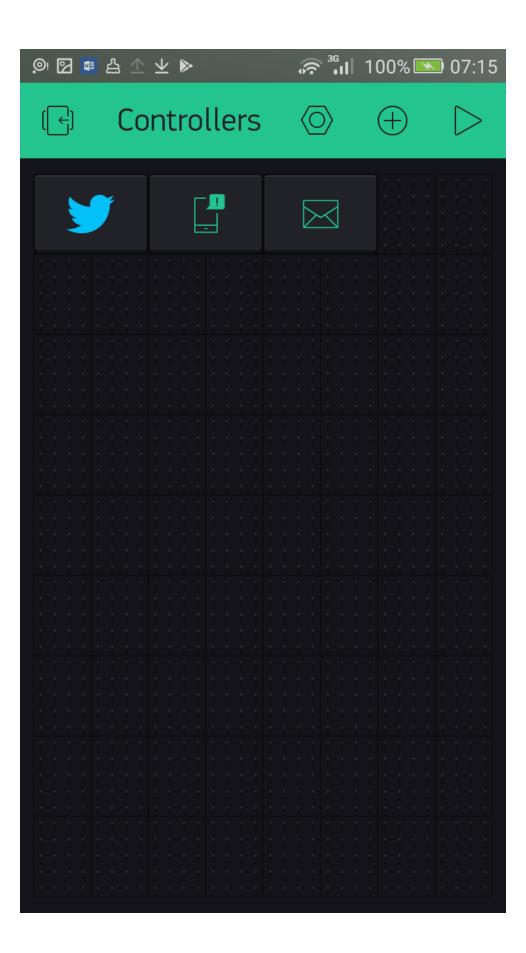


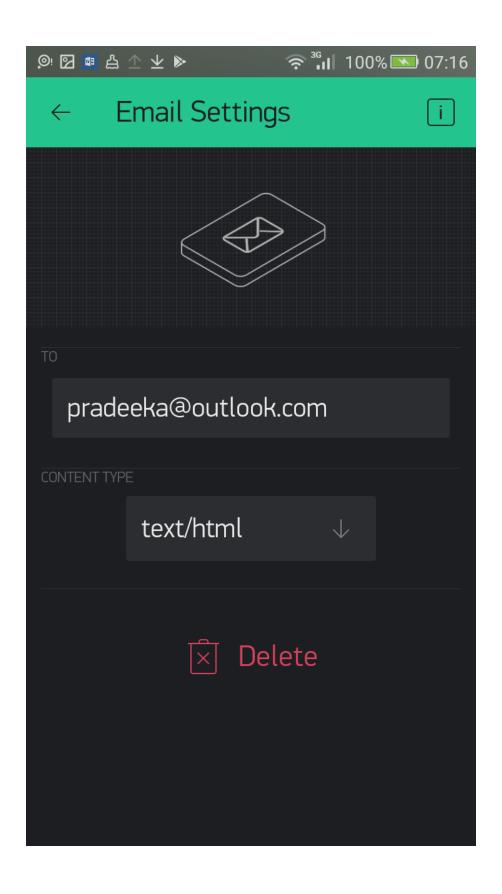




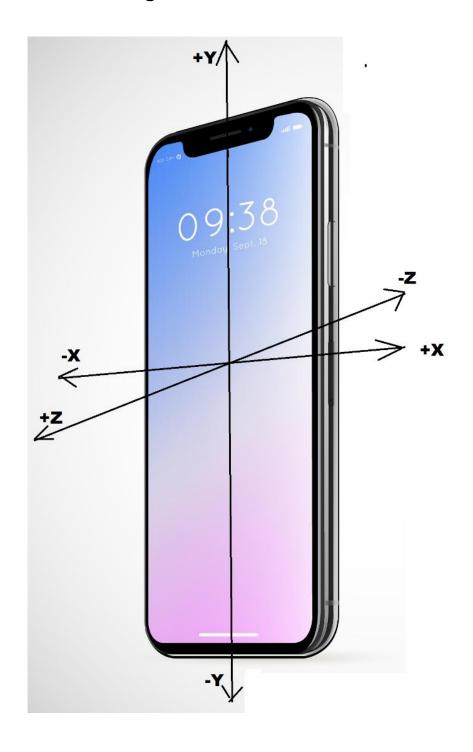


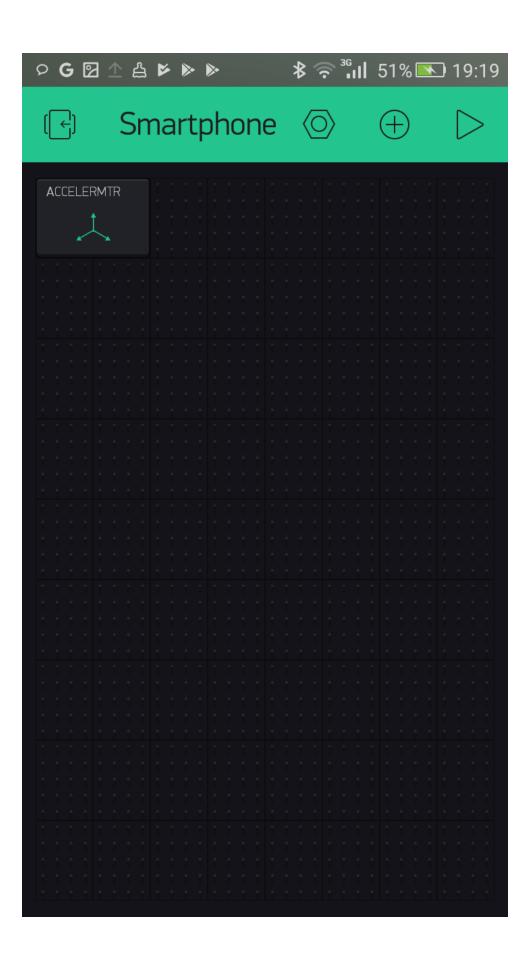


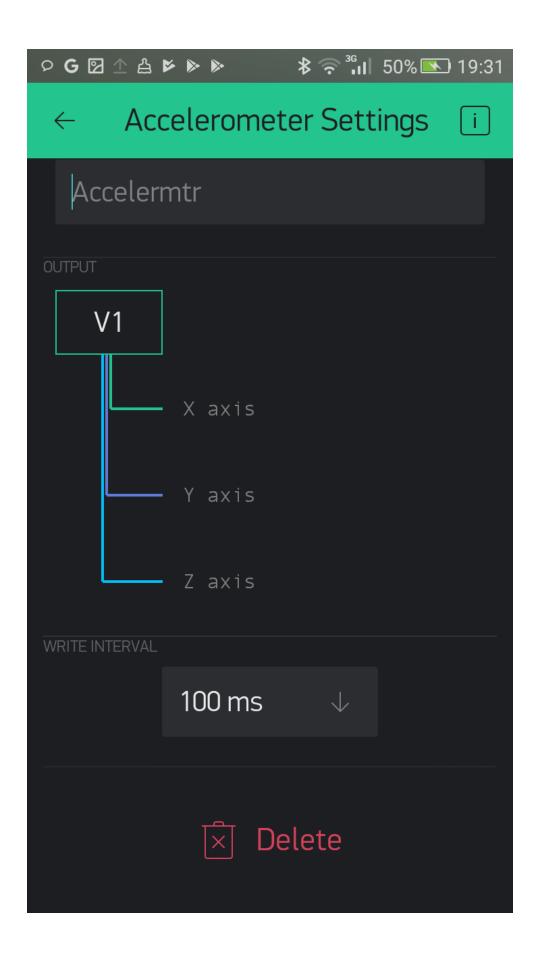


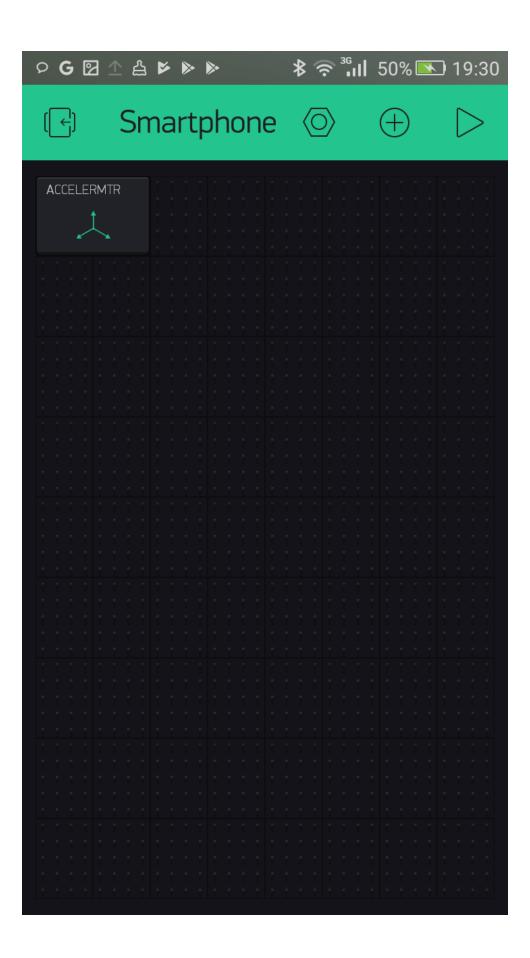


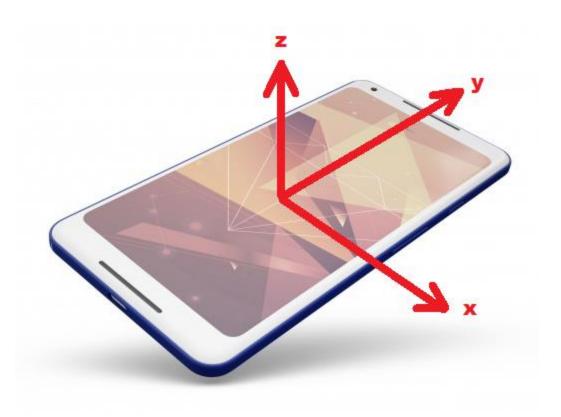
Chapter 6: Connecting with Sensors on Your Mobile Device







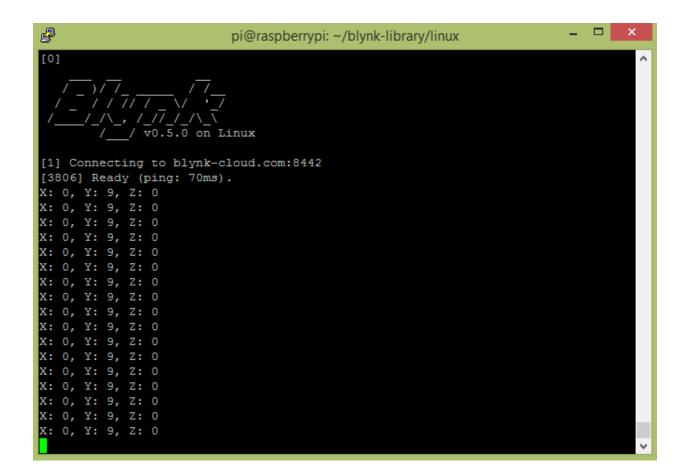


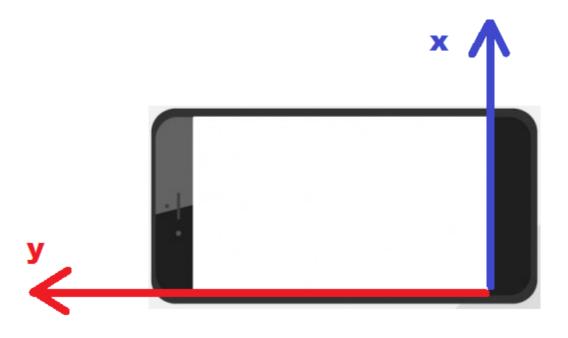


```
B
                                                                                         _ 🗆
                                pi@raspberrypi: ~/blynk-library/linux
                                                                                                    ۸
              , /_//_/\_\
_/ v0.5.0 on Linux
[1] Connecting to blynk-cloud.com:8442
[4126] Ready (ping: 71ms).
X: 0, Y: 0, Z: 9
```

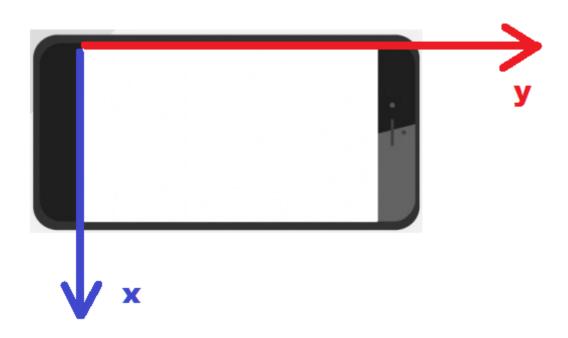
```
P
                                                                                                      _ 🗆
                                     pi@raspberrypi: ~/blynk-library/linux
X: 0, Y: 0, Z: -9
                                                                                                                   ۸
X: 0, Y: 0, Z: -9
```





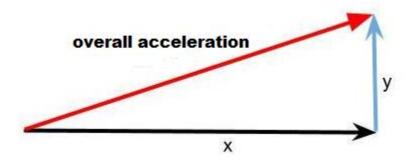


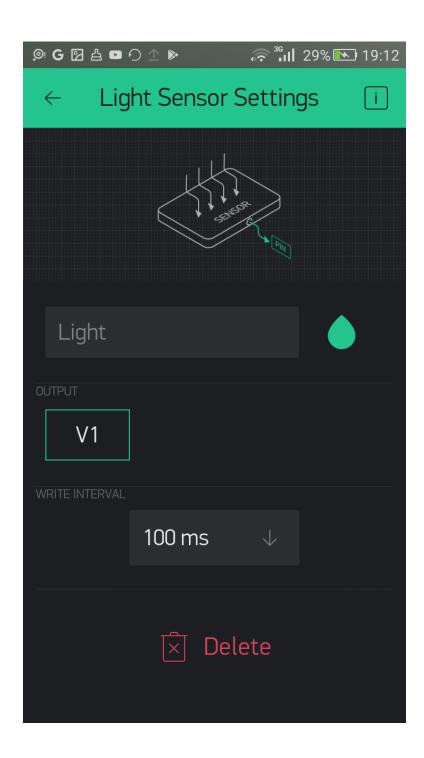
```
P
                                                                                                   _ 🗆
                                    pi@raspberrypi: ~/blynk-library/linux
                // / _ \/ . _/
, /_//_/\_\
_/ v0.5.0 on Linux
[2] Connecting to blynk-cloud.com:8442
[3262] Ready (ping: 71ms).
X: 9, Y: 0, Z: 0
```

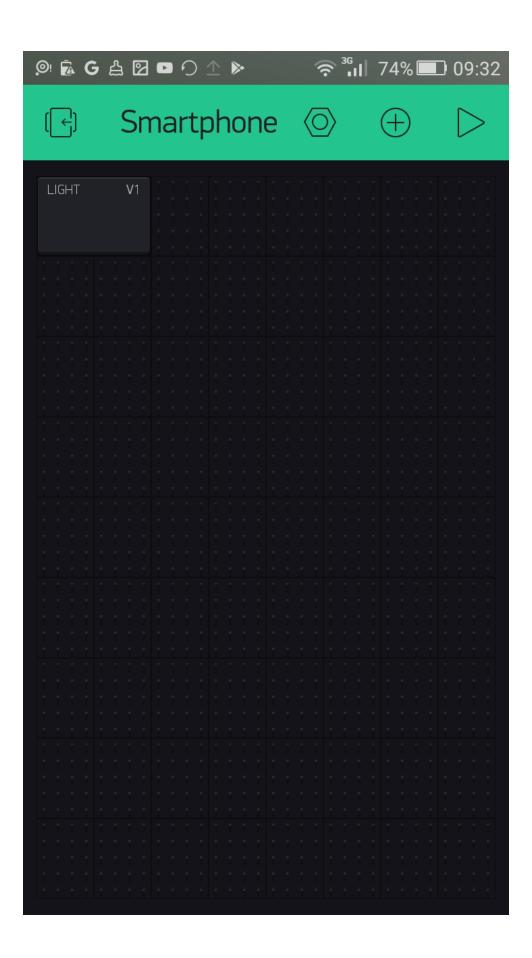


```
P
                                                                                                                       _ 🗆
                                           pi@raspberrypi: ~/blynk-library/linux
X: -9, Y: 0, Z: 0

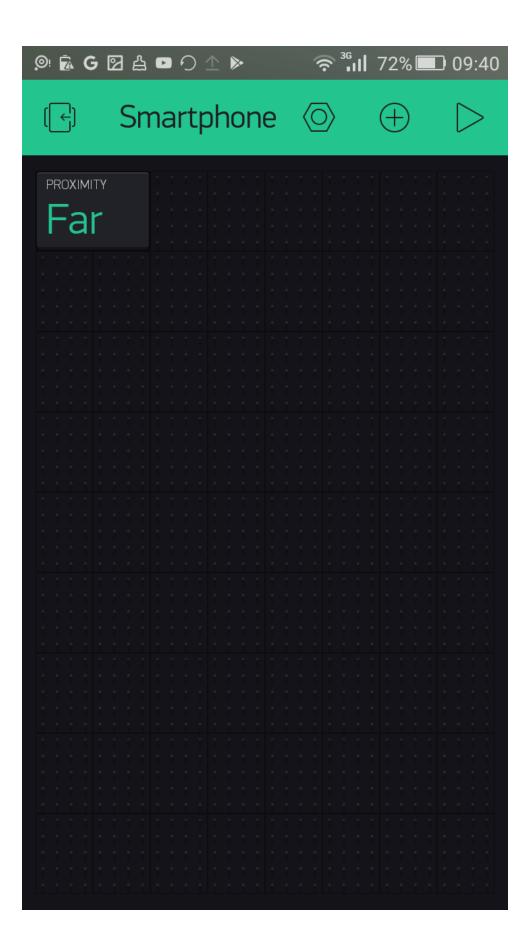
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
X: -9, Y: 0, Z: 0
```

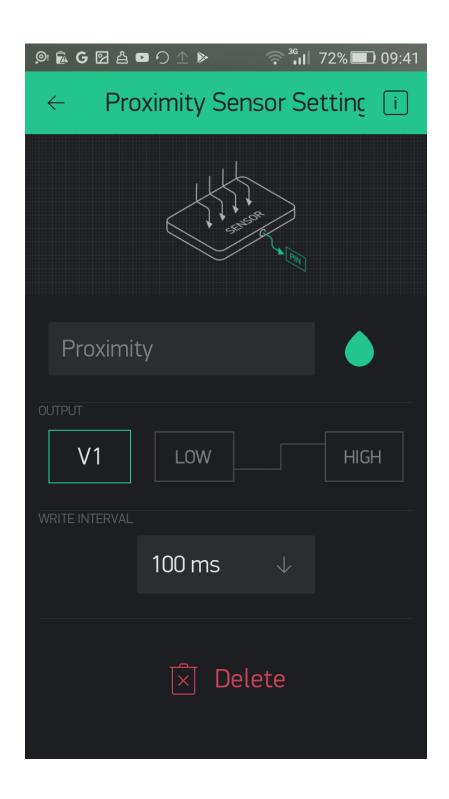






```
P
                                                                                   _ _
                              pi@raspberrypi: ~/blynk-library/linux
       /////_\/_\/_
/_/, /_//_/\_\
/__/ v0.5.0 on Linux
[1] Connecting to blynk-cloud.com:8442
[3387] Ready (ping: 71ms).
light level: 12 lx
light level: 10 lx
light level: 4 lx
light level: 12 lx
light level: 10 lx
light level: 8 lx
light level: 12 lx
light level: 10 lx
light level: 6 lx
light level: 12 lx
light level: 10 lx
light level: 12 lx
light level: 12 lx
light level: 10 lx
light level: 8 lx
light level: 10 lx
```





Chapter 7: Setting Up a Personal Blynk Server

```
_ _
                                 pi@raspberrypi: ~
 GNU nano 2.7.4
                                File: /etc/rc.local
#!/bin/sh -e
# rc.local
# This script is executed at the end of each multiuser runlevel.
# Make sure that the script will "exit 0" on success or any other
# In order to enable or disable this script just change the execution
# By default this script does nothing.
# Print the IP address
IP=$ (hostname -I) || true
if [ "$ IP" ]; then
 printf "My IP address is %s\n" "$_IP"
java -jar /home/pi/server-0.33.4.jar -dataFolder /home/pi/Blynk &
exit 0
            O Write Out N Where Is K Cut Text J Justify
             ^R Read File ^\
                            Replace
                                      ^U Uncut Text To Linter
                                                                   Go To Line
```

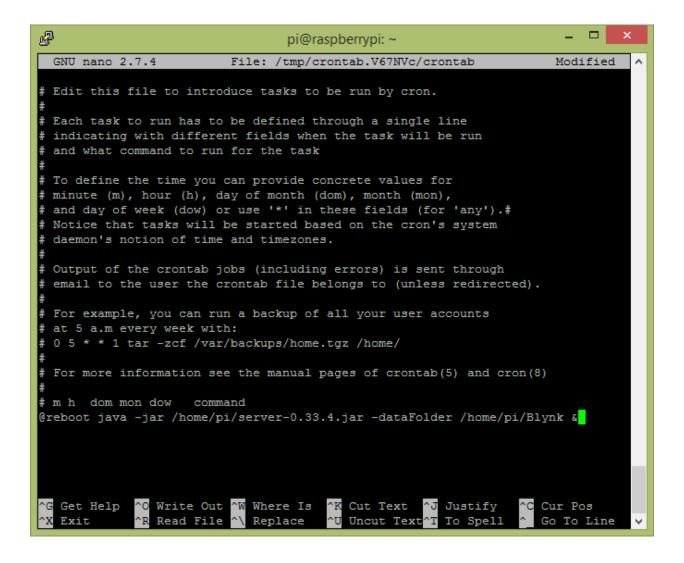
```
pi@raspberrypi:~ - - ×

pi@raspberrypi:~ $ crontab -e
no crontab for pi - using an empty one

Select an editor. To change later, run 'select-editor'.

1. /bin/ed
2. /bin/nano <---- easiest
3. /usr/bin/vim.tiny

Choose 1-3 [2]:
```



```
_ _
B
                                pi@raspberrypi: ~
      hwclock.sh
  - ] keyboard-setup.sh
 [ + ] kmod
 [ + ] networking
 [ - ] nfs-common
 [ - ] paxctld
 [ - ] plymouth
 [ - ] plymouth-log
 [ + ] procps
    ] raspi-config
] rpcbind
 [ - ] rsync
 [ + ] rsyslog
 [ + ] ssh
 [ - ] sudo
 [ + ] triggerhappy
[ + ] udev
[ - ] x11-common
pi@raspberrypi:~ $ ps -aux | grep java
          843 34.2 6.1 358340 58644 pts/0 S1+ 17:05
                                                         0:23 java -jar serve
r-0.33.4-java8.jar -dataFolder /home/pi/Blynk
         1123 0.0 0.0 4372 540 pts/1 S+ 17:07
pi
                                                         0:00 grep --color=au
to java
pi@raspberrypi:~ $
```







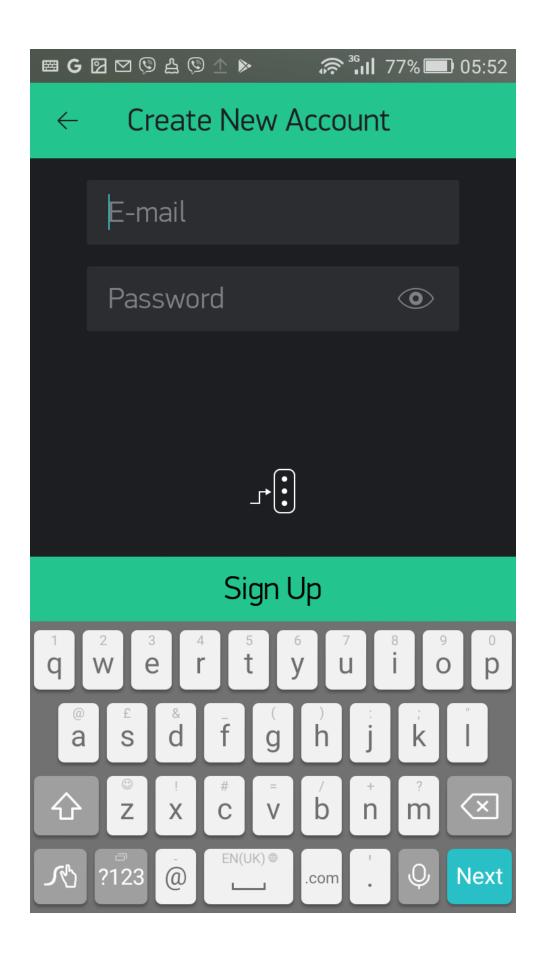
Log In | Create New Account

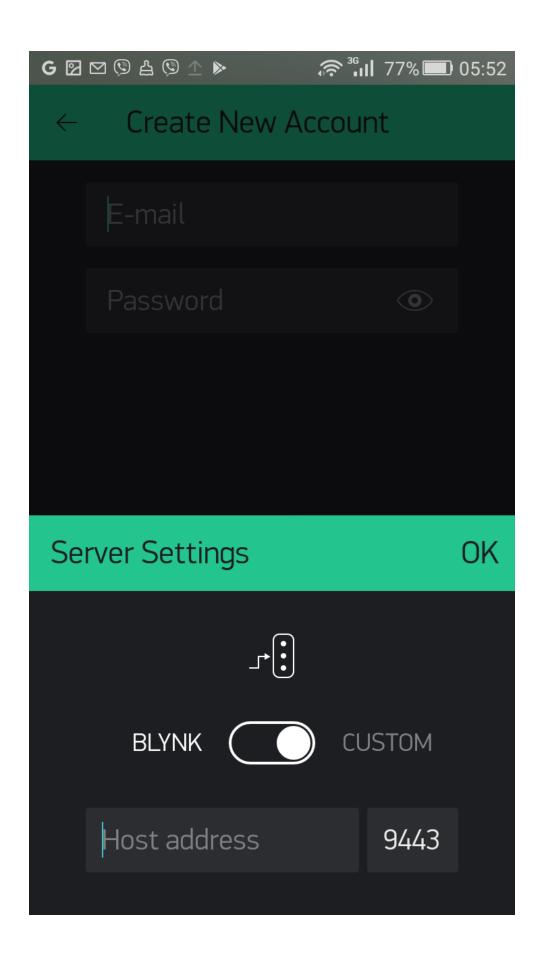


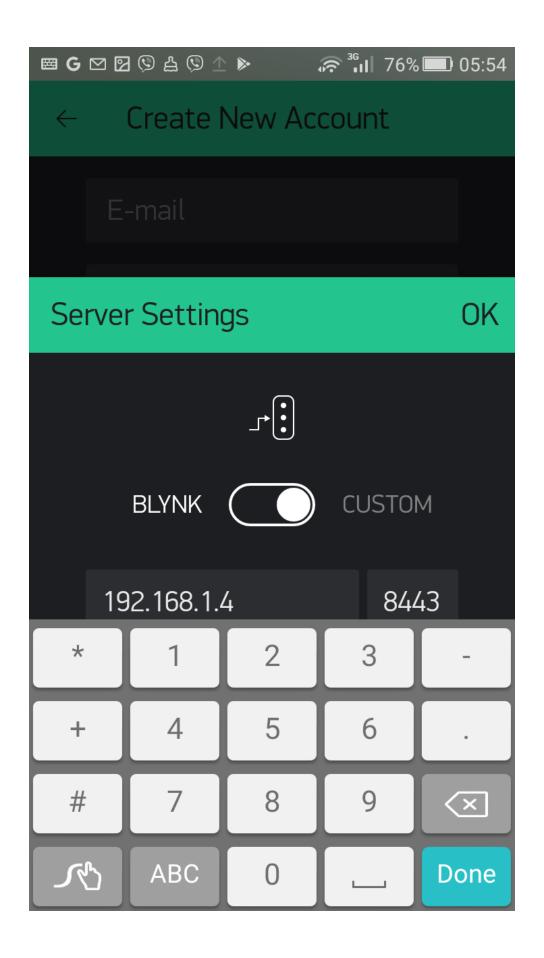
Log In with Facebook

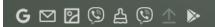


Why do I need an account?



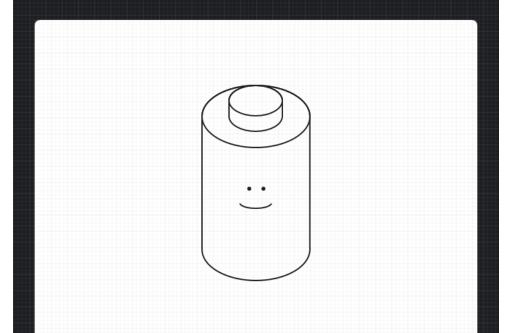








← How energy works

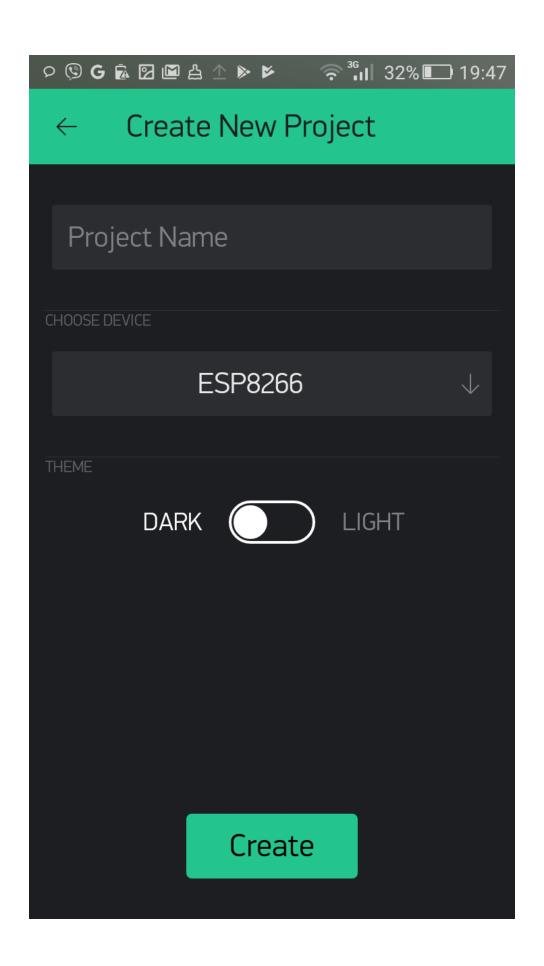


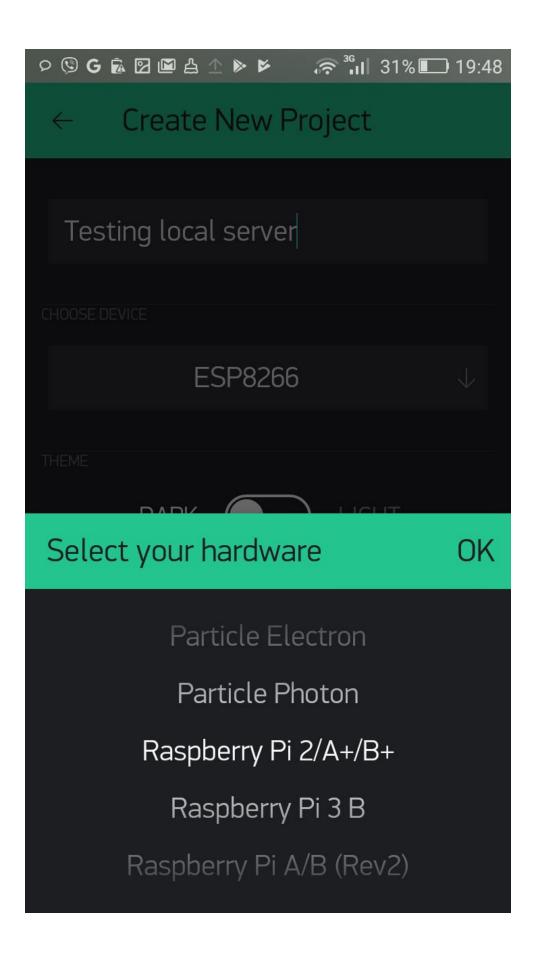
Each widget needs Energy to operate

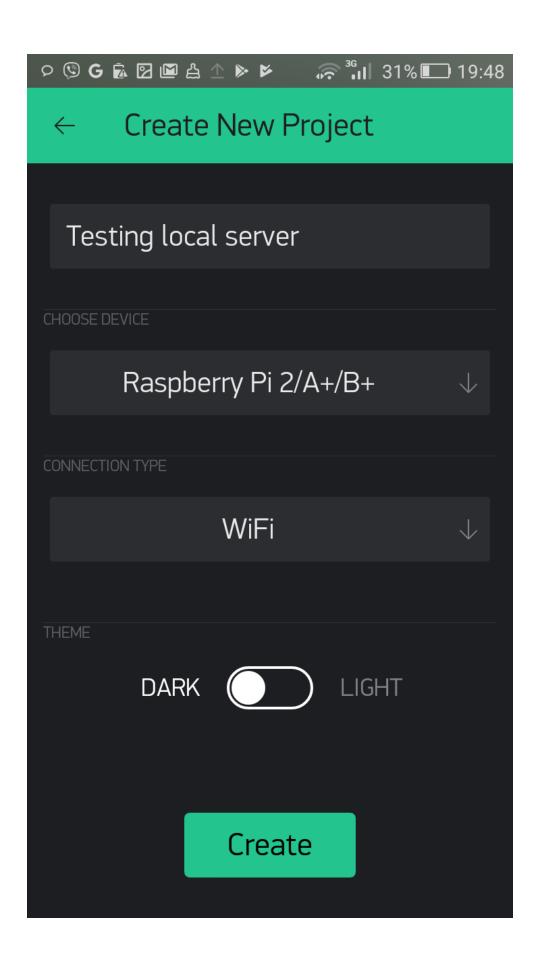
When you delete a widget Energy is returned

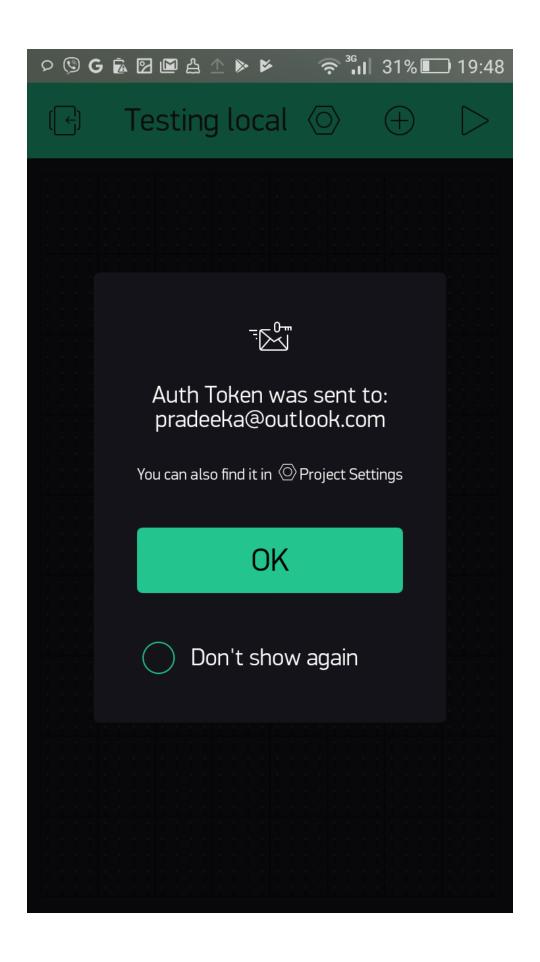
You can always get more Energy in our Store.

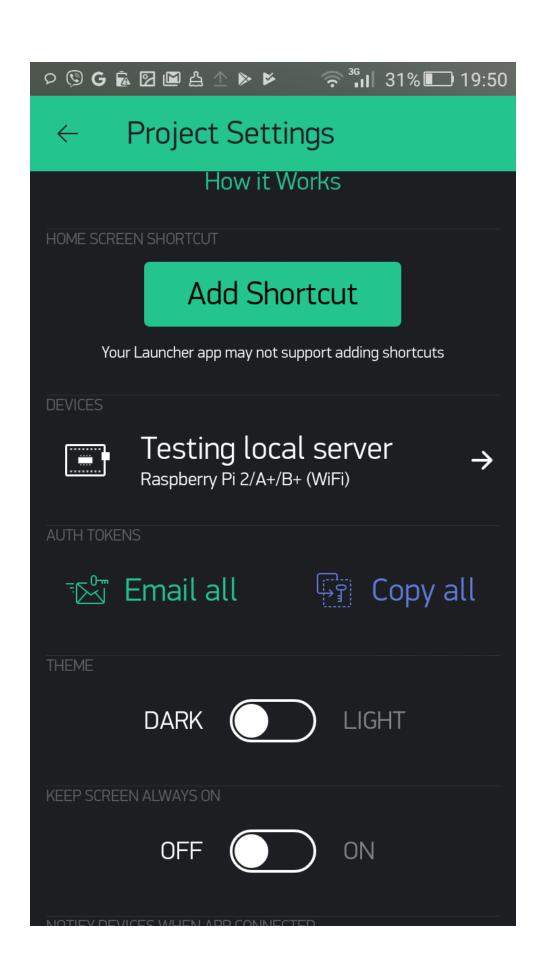
Cool! Got it.

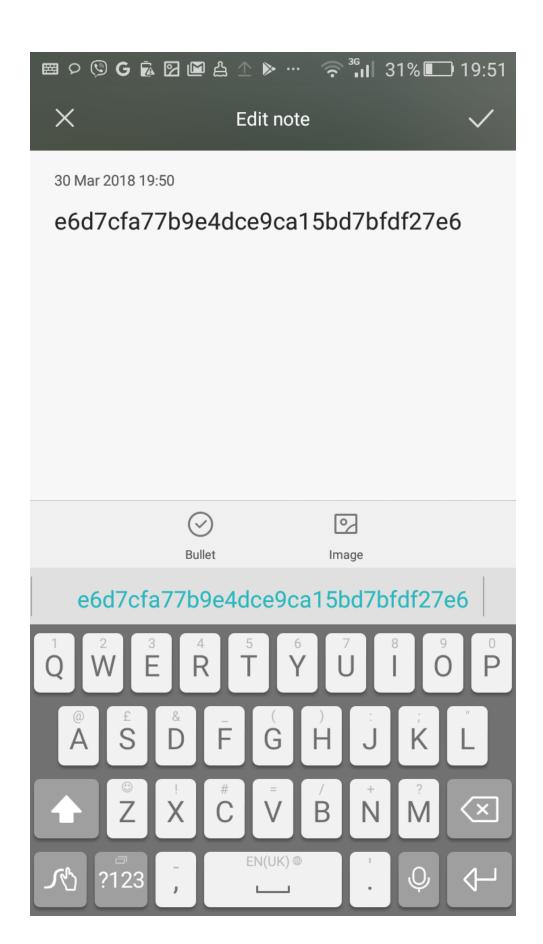


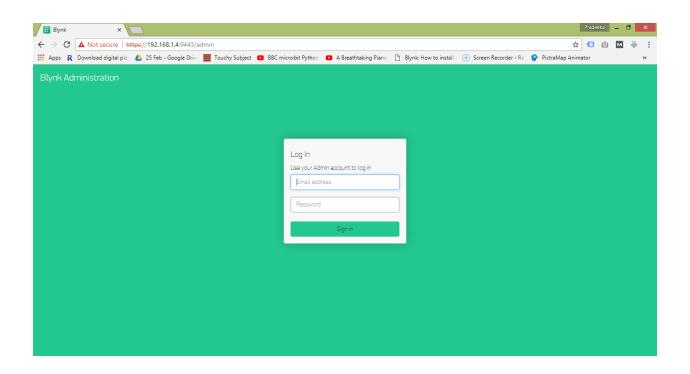


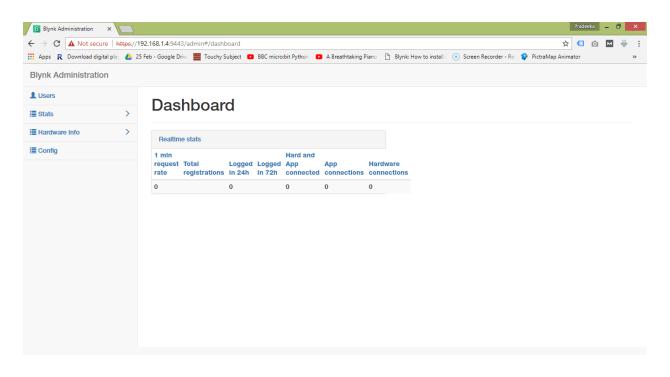


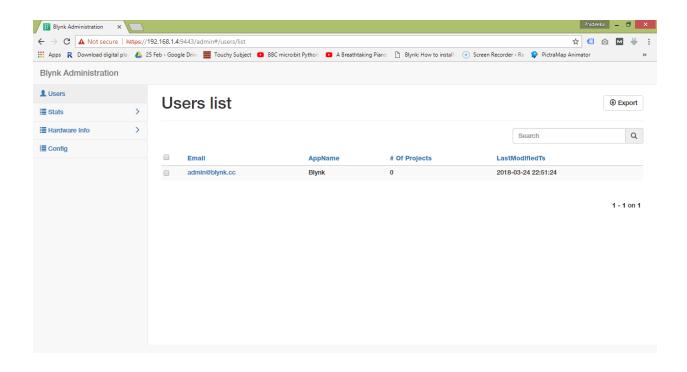


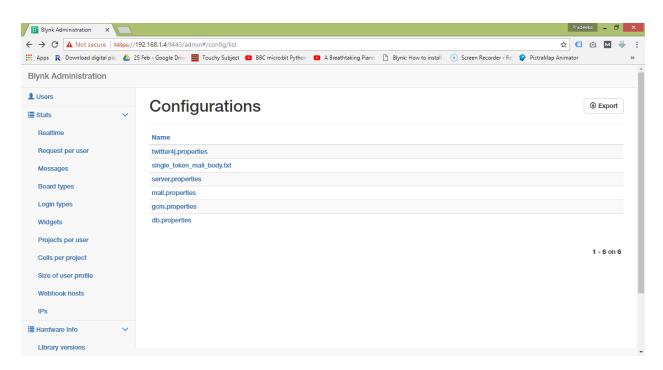


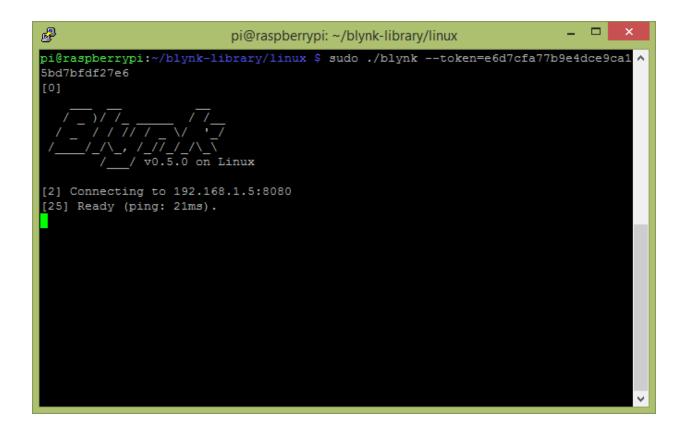












Chapter 8: Controlling a Robot with Blynk

	erryp:	i:~ \$ gpio +			Pi	3	+ <u></u>	+ <u></u>	+ <u></u>	+ <u>-</u> -	+ <u>-</u> -
ВСМ	wPi Name		Mode	V	Physical		V	Mode	Name	wPi	ВСМ
		3.3v			1	2			5v		
2	8	SDA.1	ALT0	1	3	4	l		5V	l	ĺ
3	9	SCL.1	ALT0	1 1	5	6			0v		
4	7	GPIO. 7	IN	0	7	8	1	IN	TxD	15	14
		0v			9	10	1	IN	RxD	16	15
17	0	GPIO. 0	IN	0	11	12	0	IN	GPI0. 1	1	18
27	2	GPIO. 2	IN	0	13	14			0v	1	
22	3	GPIO. 3	IN	0	15	16	0	IN	GPIO. 4	4	23
		3.3v			17	18	0	IN	GPIO. 5	5	24
10	12	MOSI	ALT0	1	19	20			0v	1	
9	13	MISO	ALT0	1	21	22	0	IN	GPIO. 6	6	25
11	14	SCLK	ALT0	0	23	24	1	OUT	CE0	10	8
		0v			25	26	1	OUT	CE1	11	7
0	30	SDA.0	IN	1	27	28	1	OUT	SCL.0	31	1
5	21	GPI0.21	IN	0	29	30	l		0v		
6	22	GPI0.22	IN	0	31	32	0	IN	GPI0.26	26	12
13	23	GPI0.23	IN	1	33	34			0v		
19	24	GPI0.24	IN	0	35	36	0	IN	GPI0.27	27	16
26	25	GPI0.25	IN	0	37	38	0	IN	GPI0.28	28	20
		0v			39	40	0	IN	GPI0.29	29	21
всм					Physical Pi 3						всм







