CONTROLLING 3 LEDS: LEARN RESOURCE
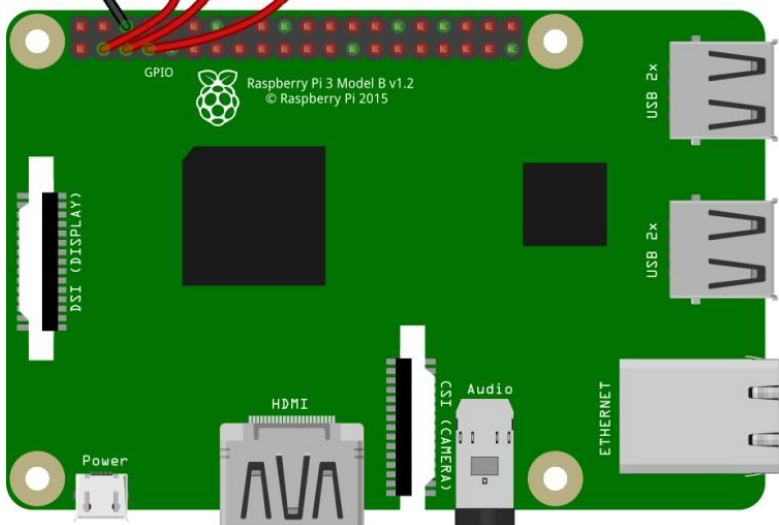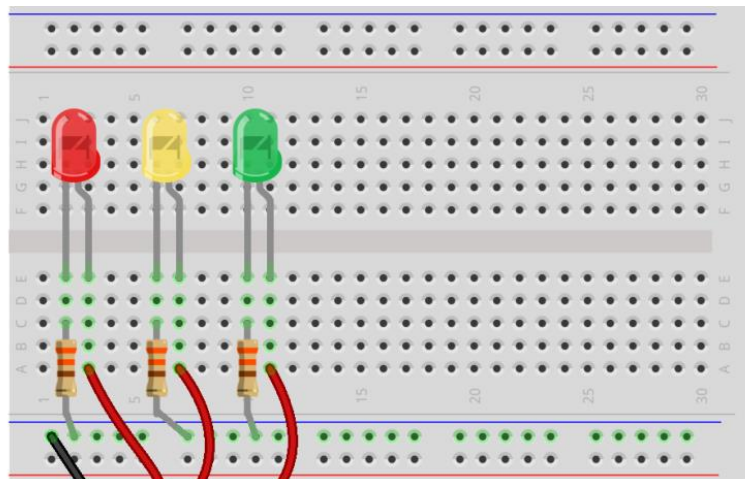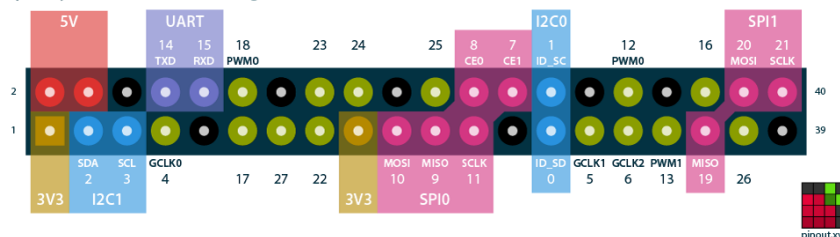
BUILD THE CIRCUIT

GPIO REFERENCE

Raspberry Pi GPIO BCM numbering

pinout.xyz

YOU WILL NEED
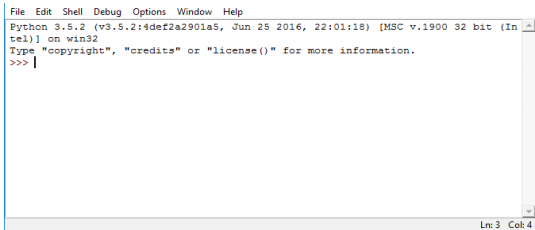
- RASPBERRY PI
- BREADBOARD
- 1 RED LED
- 1 YELLOW LED
- 1 GREEN LED
- 4 MALE TO FEMALE WIRES
- 3 330Ω RESISTOR
- SCREEN, KEYBOARD, MOUSE

MAIN ACTIVITY

1. On the top right hand corner of your screen, click the Raspberry Logo then select programming and then Python 3. You should now see the Python Shell window.

```
File  Edit  Shell  Debug  Options  Window  Help
Python 3.5.2 (v3.5.2:4def2a2901a5, Jun 25 2016, 22:01:18) [MSC v.1900 32 bit (In
tel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> |
                                                              Ln: 3  Col: 4
```

2. Now, click file then new file. In the new window select File then Save As and call it controllingleds.py .

Let's Code

3. Lets get coding. If you want to learn more about the LED's check out our LED Learn resource on the website.

4. Press CTRL+S on your keyboard to save the file. Then press F5 on your keyboard to run the code. You should see the 3 leds blink 5 times. The for loops specifies how many times to blink. To stop the code press CTRL+C on your keyboard to stop it.

Not Work? Look at our troubleshooting guide on the website.

```python
from edupython import kit1
import time

for i in range(5):
    kit1.red.led.on()
    kit1.yellow.led.on()
    kit1.green.led.on()
    time.sleep(1)
    kit1.red.led.off()
    kit1.yellow.led.off()
    kit1.green.led.off()
    time.sleep(1)
```