Cambridge Raspberry Jam

Name	
Age	
Parent	

Beginners worksheet #2

Project	Simple LED with python
Description	In this project you will learn how to turn and LED on and off.

Tools required

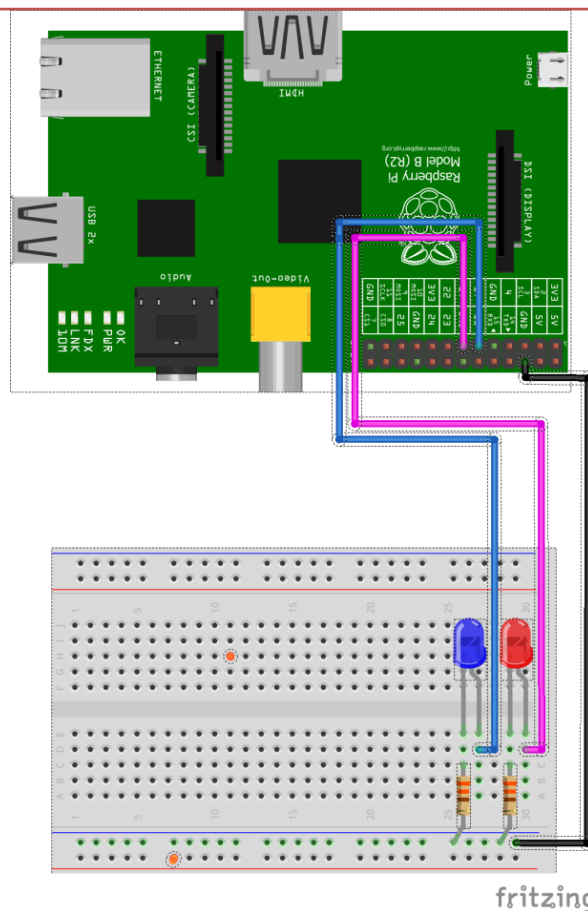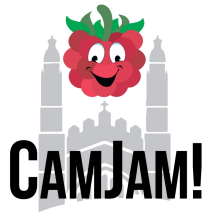|	
☐ Raspberry Pi + SD card	☐ Breadboard
☐ Keyboard	☐ 1 X Red LED
☐ Monitor + HDMI cable	☐ 1 X Blue LED
☐ Power supply	☐ 2 x 330 Ω resistors
	☐ 3 x m/f jumper wires

TURN ON THE LEDS "2_on.py"

```python
#!/usr/bin/python
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BCM)
GPIO.cleanup()
GPIO.setwarnings(False)
GPIO.setup(17,GPIO.OUT)
GPIO.setup(27,GPIO.OUT)
print "Lights on"
GPIO.output(17,GPIO.HIGH)
GPIO.output(27,GPIO.HIGH)
```

TURN OFF THE LEDS "2_off.py"

```python
#!/usr/bin/python
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BCM)
GPIO.cleanup()
GPIO.setwarnings(False)
GPIO.setup(17,GPIO.OUT)
GPIO.setup(27,GPIO.OUT)
print "Lights on"
GPIO.output(17,GPIO.LOW)
GPIO.output(27,GPIO.LOW)
```

1. Create file "**touch 2_on.py**"
2. Create file "**touch 2_off.py**"
3. Enter the code above code
Once complete "Ctrl + x" then "y" then "enter"
4. To run the python code "**sudo python 2_on.py**" << Watch LEDS turn on
5. To run the python code "**sudo python 2_off.py**" << Watch LEDS turn off