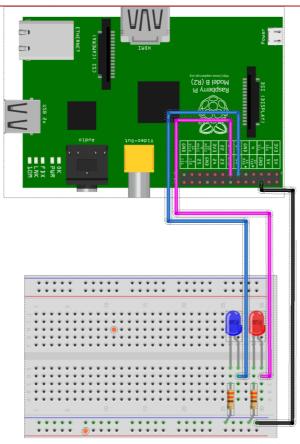


Cambridge Raspberry Jam		
Name		
Age		
Parent		
Beginners worksheet #3		
Project	Simple blinking LED with python	
Description	In this project you will learn how to make an LED blink	
Tools required		
☐ Raspberry Pi + SD card		□ Breadboard
□ Keyboard		□ 1 X Red LED
☐ Monitor + HDMI Cable		□ 1 X Blue LED
☐ Power supply		□ 2 x 330 Ω resistors
		☐ 3 x m/f jumper wires



fritzing



Code

TURN ON THE LEDS "3 blink.py"

#!/usr/bin/python

```
import time
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(17,GPIO.OUT)
GPIO.setup(27,GPIO.OUT)
#Turn LEDs on
GPIO.output (17, GPIO.HIGH)
GPIO.output (27, GPIO.HIGH)
time.sleep(1)
#Turn LEDs off
GPIO.output (17, GPIO.LOW)
GPIO.output (27, GPIO.LOW)
time.sleep(1)
#Turn LEDs on
GPIO.output (17, GPIO.HIGH)
GPIO.output (27, GPIO.HIGH)
time.sleep(1)
#Turn LEDs off
GPIO.output (17, GPIO.LOW)
GPIO.output (27, GPIO.LOW)
GPIO.cleanup
TURN ON THE LEDS "3 blink forever.py"
#!/usr/bin/python
import time
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(17,GPIO.OUT)
GPIO.setup(27,GPIO.OUT)
while 1:
     GPIO.output (17, GPIO.HIGH)
     GPIO.output (27, GPIO.HIGH)
     time.sleep(1)
     GPIO.output (17, GPIO.LOW)
     GPIO.output (27, GPIO.LOW)
     time.sleep(1)
```

- 1. Change directory "cd Desktop/gpio_python_code/"
- 2. Create file "touch 3_blink.py"
- 3. Create file "touch 3_blink_forever.py"
- 4. Enter the code above code

Once complete "Ctrl + x" then "y" then "enter"

- 5. To run the python code "sudo python 3 blink.py" << Watch the LEDs blink 2 times
- 6. To run the python code "sudo python 3_blink_forever.py" << Watch the LEDs blink forever