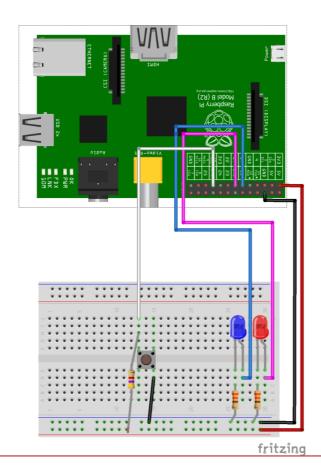


Cambridge Raspberry Jam		
Name		
Age		
Parent		
Beginners worksheet #4		
Project	Push button for physical input	
Description	In this project you will learn how to wire and program a push button for physical	
	input.	
Tools required		
☐ Raspberry Pi + SD Card		□ 1 X Red LED
☐ Keyboard		□ 1 X Blue LED
☐ Monitor + HDMI cable		□ 2 x 330 Ω resistors
☐ Power supply		☐ 5 x m/f jumper wires
□ Breadboard		☐ 4.7k Ω resistors
☐ Push button		☐ 1 m/m jumper wire





## Code

## TURN ON THE LEDS "4\_button.py"

```
#!/usr/bin/python
import os
import time
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(10, GPIO.IN)
print("----")
print(" Button + GPIO ")
print("----")
print GPIO.input(10)
while True:
  if (GPIO.input(10) == False):
     print("Button Pressed")
     os.system('date')
     print GPIO.input(10)
     time.sleep(5)
  else:
     os.system('clear')
     print ("Waiting for you to press a button")
time.sleep(1)
```

- 1. Change directory "cd Desktop/gpio\_python\_code/"
- 2. Create file "touch 4\_button.py"
- 3. Enter the code above code

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

4. To run the python code "sudo python 4\_button.py"