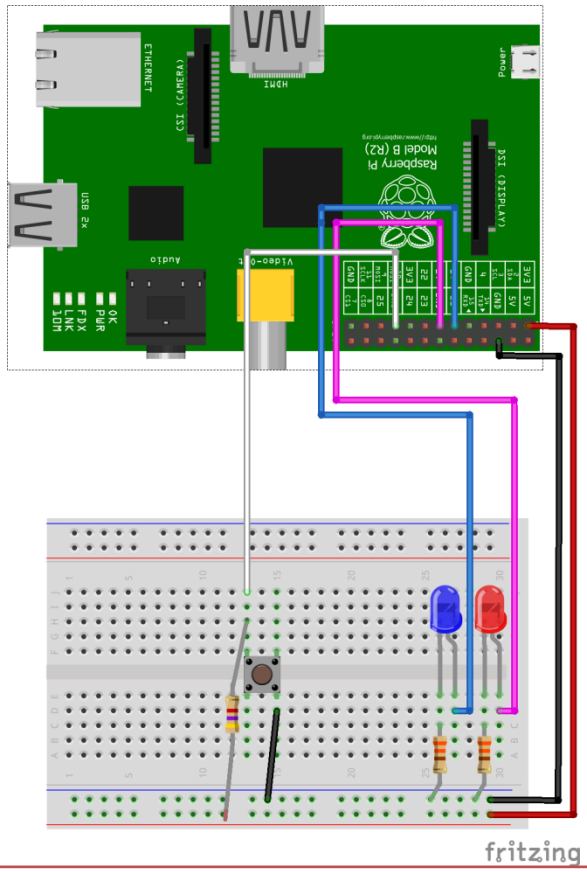
Cambridge Raspberry Jam
Name
Age
Parent

Beginners worksheet #5	
Project	Interact with the user and input your choice.
Description	In this project you will controller either the red or blue led depending on what your chose.

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	☐ 1 4.7k Ω resistors
☐ Push Button	☐ 1 m/m jumper wire



Code

TURN ON THE LEDS "6_user_input_blink.py"

```
#!/usr/bin/python
import os
import time
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(17,GPIO.OUT)
GPIO.setup(27,GPIO.OUT)

#Setup variables for user input
led_choice = 0
count = 0

os.system('clear')

print "Which LED would you like to blink"
print "1: Red?"
print "2: Blue?"

led_choice = input("Choose your option: ")

if led_choice == 1:
      os.system('clear')
      print "You picked the Red LED"
      count = input("How many times would you like it to blink?: ")
      while count > 0:
            GPIO.output(27,GPIO.HIGH)
            time.sleep(1)
            GPIO.output(27,GPIO.LOW)
            time.sleep(1)
            count = count - 1

if led_choice == 2:
      os.system('clear')
      print "You picked the Red LED"
      count = input("How many times would you like it to blink?: ")
      while count > 0:
            GPIO.output(17,GPIO.HIGH)
            time.sleep(1)
            GPIO.output(17,GPIO.LOW)
            time.sleep(1)
            count = count - 1
```

1. Change directory "**cd Desktop/gpio_python_code/**"
2. Create file "**touch 6_user_input_blink.py**"
3. Enter the code above code

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

4. To run the python code "**sudo python 6_user_input_blink.py**" << Run through the questions and make an LED blink.