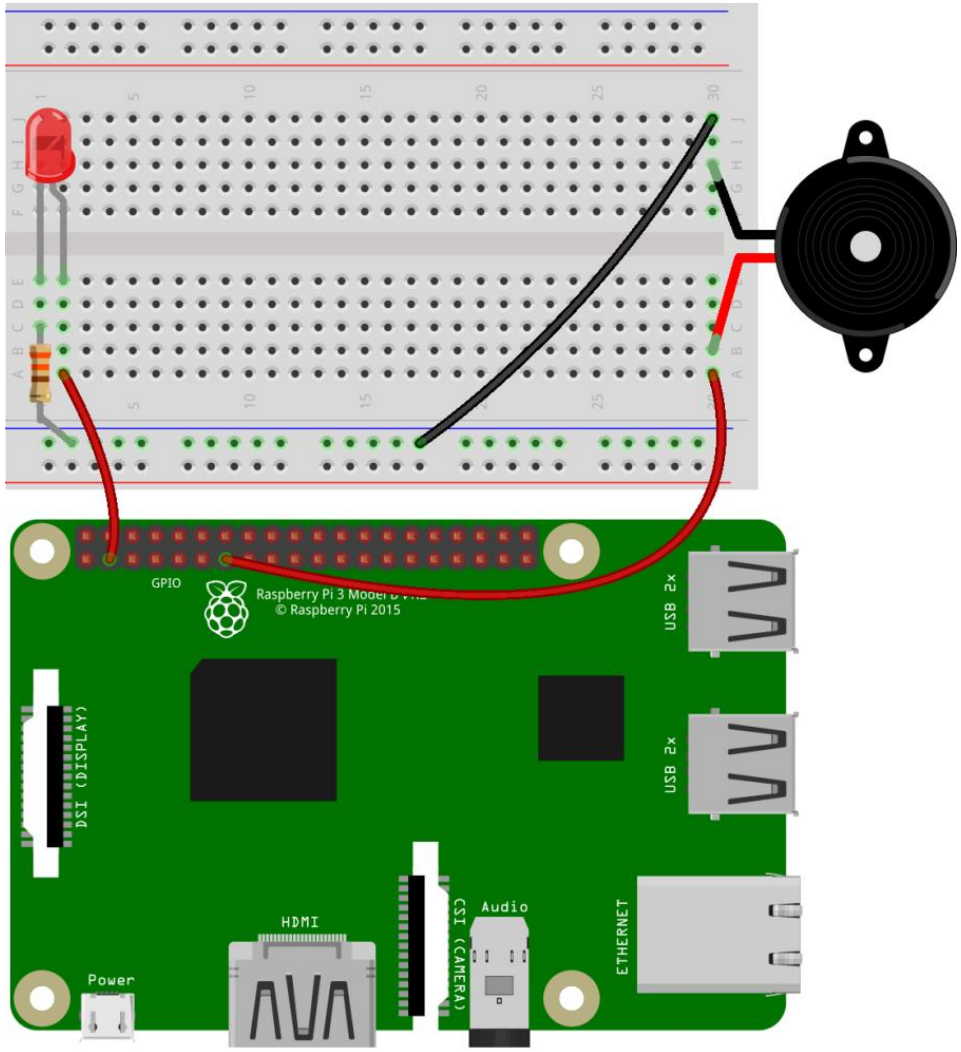
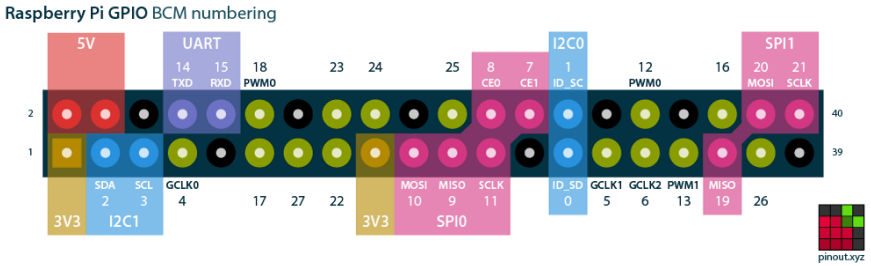
WHAT ARE BUZZERS & LEDS?: ACTIVITY

BUILD THE CIRCUIT



GPIO REFERENCE



YOU WILL NEED

- RASPBERRY PI
- BREADBOARD
- 1 RED LED
- 1 BUZZER
- 2 MALE TO FEMALE WIRES
- 1 MALE TO MALE WIRES
- 1 330Ω RESISTOR
- SCREEN, KEYBOARD, MOUSE

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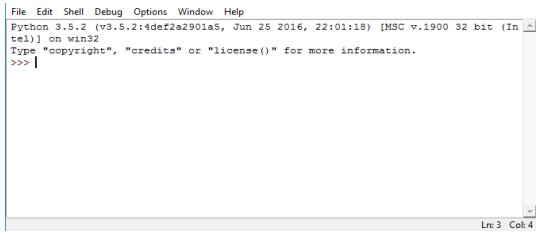
MAIN ACTIVITY

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.



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

Let's Code

3. Lets get coding. Using your knowledge skills from the main exercise, have a go at using the components and interacting with them through code.

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 red led and buzzer come on for 5 seconds then them turn off for 5 seconds and repeat that sequence. To stop the code press CTRL+C on your keyboard to stop it.

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

```
from edupython import kit1
import time

while True:
    kit1.red.led.on()
    kit1.buzzer.on()
    time.sleep(5)
    kit1.red.led.off()
    kit1.buzzer.off()
    time.sleep(1)
```