raspikidd

TURNING AN LED ON

WITH

python™

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TURNING AN LED ON

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OBJECTIVE

We are going to use a Raspberry Pi and Python to turn an LED on.

GETTING STARTED

To open Python go to Menu -> Programming -> Python 3

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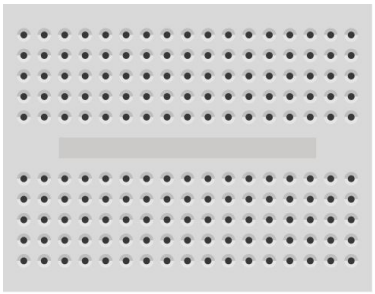
BUILDING THE CIRCUIT

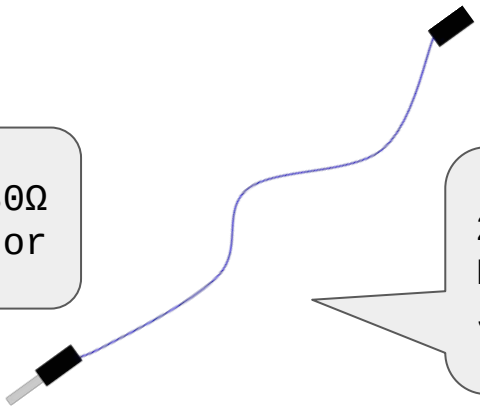
You will need the following electronic components to create the circuit.



1 x Breadboard

1 x LED

1 x 330Ω resistor



2 x Male to Female Jumper wires

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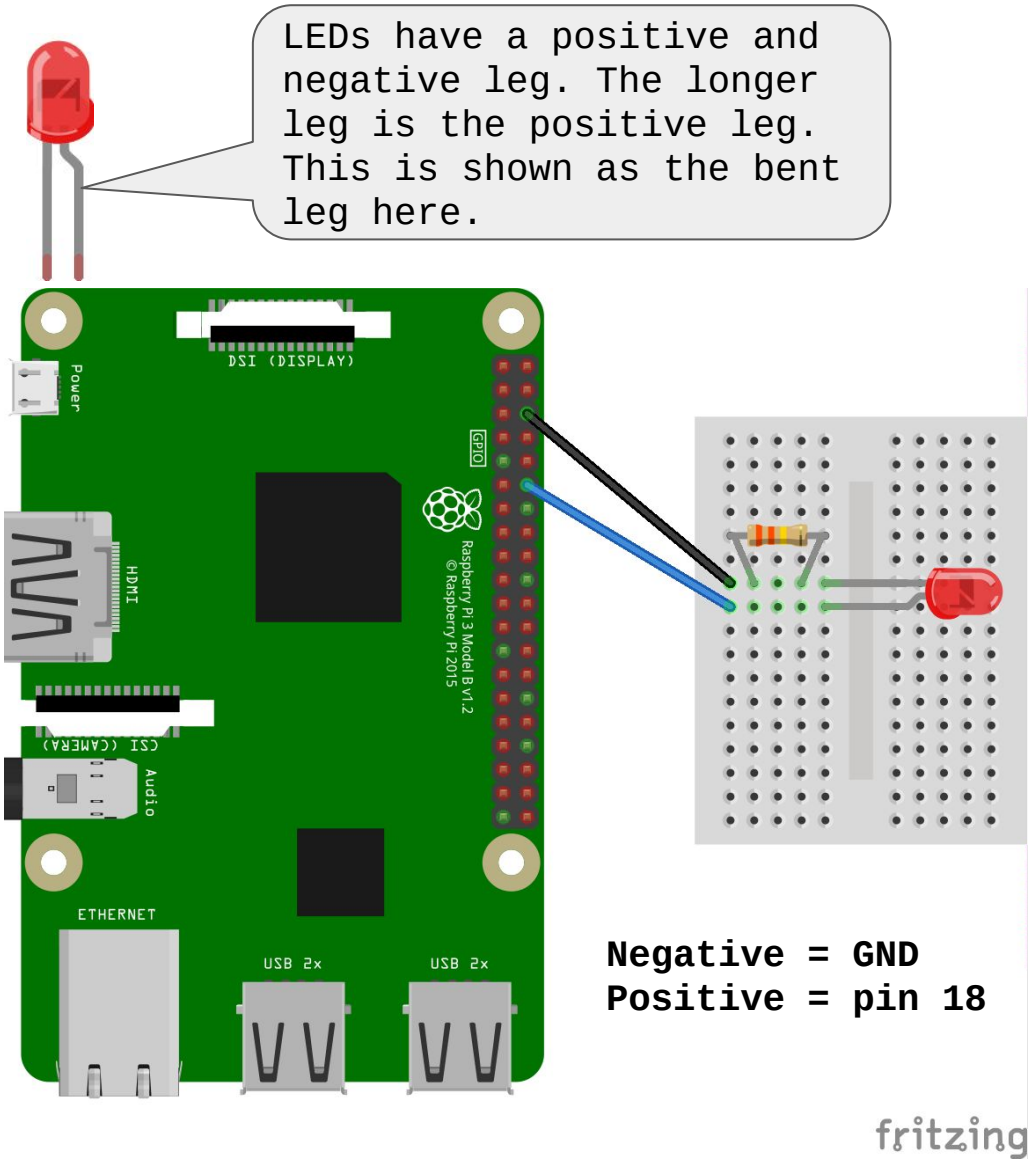
BUILDING THE CIRCUIT



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CODE

```
from gpiozero import LED # this imports the LED module from the gpiozero library
led = LED(18) # This is declaring pin 18 as the LED
led.on() # This is turning the LED on
```

You can ignore anything after the “#” as this represents a comment and is telling you what the code does.

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RUNNING THE CODE

1. Save your code by clicking on file -> save as.
2. Give your program a name e.g. LED on.
3. To run your code press F5 on your keyboard.
4. You should now see your LED turn on, if not go back and check your circuit and code are correct. This is called Debugging.

CHALLENGE

Try Turning the LED off.

HINT: change the third line of code.