Within this tutorial we are going to make an LED blink on and off using EduBlocks and a Raspberry Pi.

YOU WILL NEED

- 1 x LED
- 2 x male to female jumper wires
- 1 x breadboard
- 1 x 330Ω resistor
- Raspberry Pi
- keyboard
- Mouse
- SD Card with Raspbian installed
- HDMI cable
- Compatible Screen
- Power Supply



There are two things we need to do to start EduBlocks

- 1. Go to menu -> programming and click on EduBlocks Connect. (if you have EduBlocks set to start on Startup go to step 2)
- open a web browser and type <u>app.</u> <u>edublocks.org</u> and click on Raspberry Pi.

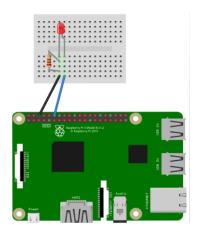
NOTE: If you have a raspberry pi set up on your home network with EduBlocks installed and running you can access it from another computer using it's IP address

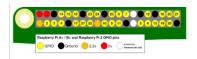
CODE

- 1. Click on **gpiozero**
- Click on General click and drag a from gpiozero import * to the coding area and drop it.
- 3. Click on Outputs.
- Click on LED. Click and drag an led =LED() block to the coding area and attach it under from gpiozero *



Lets build the circuit. Make sure you have your LED the right way round. The positive leg is the longer leg on the LED, this is represented by the bent leg in the diagram below:





- 5. Click within the blank space of the **from gpiozero import** * block and type **18**.
- Click on LED click and drag an led.on()
 block to the coding area and attach it under
 led =LED(18). Click on the arrow next to on
 and click on blink

Your code should now look like this:



RUNNING THE CODE

To run your code click on **Run** on the toolbar above the coding area.

You should now see the LED attached to your Raspberry Pi blink on and off.

Well done you have made an LED blink on and off by using your Raspberry Pi and code!

