

Physical Computing Quiz 3

Question 1

In the line below what does the number 4 signify?

- `my_led = LED(4)`
- 4 is the quantity of LEDs being controlled by the Python code
- The LED is connected to GPIO pin 4
- The LED will switch on for 4 seconds

Question 2

What is the purpose of the resistor in the LED circuit you built?

- It will make the LED brighter
- It changes the direction of current flow in the circuit
- It reduces the amount of current flowing, which protects the LED from receiving too much.

Question 3

Which of these statements about an LED are **false**? Select all the answers you think are correct.

- If you place an LED in the circuit the wrong way round it will blow up
- The shorter leg near the flattened edge is the positive connector (cathode)
- The shorter leg near the flattened edge is the negative connector (cathode)
- You must use the correct coloured cables when connecting up an LED

Question 4

Why did you connect the LED to the **Ground** and **3.3V** pins before moving the anode to a different pin?

- To charge the LED before use
- To test that all the electronic components worked before trying to control them with code
- To establish a connection between the Raspberry Pi and the LED