

Physical Computing Quiz 4

Python and buttons

Question 1

Which of these are possible outputs from this line of Python?

```
print(randint(0,5))
```

Select all the answers you think are correct.

1, 1.6, 5, -1, 21, 0, 3, 3.5,

hint: `randint` generates a random integer in the specified range.

Question 2

Which pins of the Raspberry Pi do you need for connecting a button?

- The 3.3 volts pin, a ground pin and any other numbered GPIO pin
- Any 2 ground pins
- Any numbered GPIO pin and any ground pin
- Any two pins

Question 3

Three of these states have similar meanings; the other one is the odd one out. Which is it?

Low, 0, High, Off

Question 4

Which of these python programs would cause an LED on pin 17 to change state whenever a button on pin 4 is pressed?

```
from gpiozero import LED, Button
led = LED(17)
btn = Button(4)
while True:
    btn.wait_for_press()
    led.toggle()
```

```
from gpiozero import Button
led = LED(17)
btn = Button(4)
while True:
    btn.wait_for_press()
    led.toggle()
```

```
from gpiozero import LED, Button
led = LED(17)
btn = Button(4)
while True:
    btn.wait_for_press()
    led.toggle()
```

```
from gpiozero import LED, Button
led = LED(17)
btn = Button(4)
while True:
    btn.wait_for_press()
    led.on()
```