

## ASSIGNMENT 3

### CODING

#Blinking LED

```
import RPi.GPIO as GPIO
```

```
import time
```

```
GPIO.setmode(GPIO.BCM)
```

```
GPIO.setwarnings(False)
```

```
GPIO.setup(18,GPIO.OUT)
```

```
print("LED on")
```

```
GPIO.output(18,GPIO.HIGH)
```

```
time.sleep(1)
```

```
print("LED off")
```

```
GPIO.output(18,GPIO.LOW)
```

#Traffic Light

```
from gpiozero import Button, TrafficLights, Buzzer
```

```
from time import sleep
```

```
buzzer = Buzzer(15)
```

```
button = Button(21)
```

```
lights = TrafficLights(25, 8, 7)
```

```
#Button      21
```

```
#Red LED     25
```

```
#Yellow LED  08
```

#Green LED     07

#Buzzer        15

while True:

    button.wait\_for\_press()

    buzzer.on()

    light.green.on()

    sleep(1)

    lights.amber.on()

    sleep(1)

    lights.red.on()

    sleep(1)

    lights.off()

    buzzer.off()

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main.py

```
1 #Blinking LED
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3 import time
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7 print("LED on")
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9 time.sleep(1)
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11 GPIO.output(18,GPIO.LOW)
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13 #Traffic Light
14 from gpiozero import Button, TrafficLights, Buzzer
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18 lights = TrafficLights(25, 8, 7)
19
20 #Button      21
21 #Red LED     25
22 #Yellow LED  08
23 #Green LED   07
24 #Buzzer      15
```

Shell

A module you have imported isn't available at the moment. It will be available soon.

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main.py

```
14 from gpiozero import Button, TrafficLights, Buzzer
15 from time import sleep
16 buzzer = Buzzer(15)
17 button = Button(21)
18 lights = TrafficLights(25, 8, 7)
19
20 #Button      21
21 #Red LED     25
22 #Yellow LED  08
23 #Green LED   07
24 #Buzzer      15
25
26 while True:
27     button.wait_for_press()
28     buzzer.on()
29     light.green.on()
30     sleep(1)
31     lights.amber.on()
32     sleep(1)
33     lights.red.on()
34     sleep(1)
35     lights.off()
36     buzzer.off()
```

Shell

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