

**Assignment -3**  
Python Programming

Assignment Date	29 September 2022
Student Name	Raghul R
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Maximum Marks	2 Marks

**Question-1:**

**Write python code for blinking LED and Traffic lights for Raspberry pi (Only python code is enough,no need to execute in raspberry pi).**

**Solution:-**

**Python Code for Blinking LED:**

```
import RPi.GPIO as GPO # Import Raspberry Pi GPIO library
from time import sleep # Import the sleep function from the time module
GPO.setwarnings(False) # Ignore warning for now
GPO.setmode(GPO.BOARD) # Use physical pin numbering
GPO.setup(8, GPO.OUT, initial=GPO.LOW) # Set pin 8 to be an output pin and set initial value to low (off)
```

while True:

```
GPO.output(8, GPO.HIGH) # Turn on
sleep(1) # Sleep for 1 second
GPO.output(8, GPO.LOW) # Turn off
sleep(1) # Sleep for 1 second
```

**Python code for Traffic Lights:**

```
from gpiozero import LED
from time import sleep
```

```
red = LED(22)
```

```
amber = LED(27)
```

```
green = LED(17)
```

```
while True:
```

```
    red.on()
```

```
    sleep(1)
```

```
    amber.on()
```

```
    sleep(1)
```

```
    green.on()
```

```
    sleep(1)
```

```
    red.off()
```

```
    sleep(1)
```

```
    amber.off()
```

```
    sleep(1)
```

```
    green.off()
```