

Assignment -3
Python Programming

Assignment Date	16 October 2022
Student Name	Mohammed ismail
Student Roll Number	110119104050
Maximum Marks	2 Marks

Question-1:

Write a python program for blinking LED and Traffic lights for Raspberry pi.

Solution:

```
# Blink an LED

import RPi.GPIO as gpio
from time import sleep

gpio.setwarnings(False)
gpio.setmode(GPIO.BOARD)

gpio.setup(23,
GPIO.OUT,
initial=GPIO.LOW)

while True:

    gpio.output(23,
GPIO.HIGH)

    sleep(1)

    gpio.output(23,
GPIO.LOW)

    sleep(1)

# Traffic Light

import RPi.GPIO as gpio
from time import sleep

gpio.setwarnings(False)
gpio.setmode(GPIO.BOARD)
```

```
gpio.setup(23,  
GPIO.OUT,  
initial=GPIO.LOW) #  
Red
```

```
gpio.setup(24,  
GPIO.OUT,  
initial=GPIO.LOW) #  
Yellow
```

```
gpio.setup(25,  
GPIO.OUT,  
initial=GPIO.LOW) #  
Green
```

```
while True:
```

```
    gpio.output(23,  
GPIO.HIGH)
```

```
    sleep(50)
```

```
    gpio.output(24,  
GPIO.HIGH)
```

```
    sleep(5)
```

```
    gpio.output(23,  
GPIO.LOW)
```

```
    sleep(5)
```

```
    gpio.output(24,  
GPIO.LOW)
```

```
    gpio.output(25,  
GPIO.HIGH)
```

```
    sleep(50)
```

```
    gpio.output(25,  
GPIO.LOW)
```

```
    gpio.sleep(1)
```