

Assignment 3

Python Programming

Assignment date	12 th October 2022
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Question-1:

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

Solution:

```
#Blink 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)
```