

Assignment 3

Python Programming

Date	05 October 2022
Student Name	ROOPESH B
Roll Number	113119UG03083
Maximum Marks	2 Marks

Question 1:

Write python code for blinking LED for Raspberry pi

```
import RPi.GPIO as GPIO from time
import sleep
GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

while True:
    GPIO.output(8, GPIO.HIGH)
    sleep(1)

    GPIO.output(8, GPIO.LOW)
    sleep(1)
```

Question 2:

Write python code for Traffic lights for Raspberry pi

```
import RPi.GPIO as GPIO
import time
import signal
import sys
GPIO.setmode(GPIO.BCM)
```

```
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
while True:
```

```
    # Red
```

```
    GPIO.output(9, True)
```

```
    time.sleep(3)    # Red
```

```
    # Amber
```

```
    GPIO.output(10, True)
```

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

```
    # Green
```

```
    GPIO.output(9, False)
```

```
    GPIO.output(10, False)
```

```
    GPIO.output(11, True)    time.sleep(5)
```

```
    # Amber
```

```
    GPIO.output(11, False)
```

```
    GPIO.output(10, True)    time.sleep(2)
```

```
    # Amber off (red comes on at top of loop)
```

```
    GPIO.output(10, False)
```