

ASSIGNMENT-3

PYTHON PROGRAMMING

Assignment Date	9 October 2022
Student Name	JANISHA.M
Student Roll Number	960219106070
Maximum Marks	2 Marks

Question:

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

Solution:

#Blinking LED

```
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)
```

#Traffic light simulation

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

buzzer=Buzzer(15)
button=Button(21)
lights=TrafficLights(25,8,7)
```

while True:

 button.wait_for_press()

 buzzer.on()

 lights.green.on()

 sleep(1)

 lights.amber.on()

 sleep(1)

 lights.red.on()

 sleep(1)

 lights.off()

 buzzer.off()