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### **SSIGNMENT-3**

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# ython Program

Assignment Date	03 October 2022
Student Name	Sudhakar.S
Student Roll Number	812019106037
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.

## Code:

**#Blinking LED** 

import RPi.GPIO as GPIO import

time GPIO.setmode(GPIO.BCM)

GPIO.setwarnings(False)

GPIO.setup(18,GPIO.OUT)

print("LED on")

GPIO.output(18,GPIO.HIGH)

time.sleep(1)

print("LED off")

GPIO.output(18,GPIO.LOW)



## **#Traffic Light**

from gpiozero import Button, TrafficLights,
Buzzer from time import sleep
buzzer = Buzzer(15)
button = Button(21)

#Button 21 #Red LED 25

lights = TrafficLights(25, 8, 7)

#Yellow LED 08

#Green LED 07

#Buzzer 15

while True:

button.wait\_for\_press()

buzzer.on()

light.green.on()

sleep(1)

lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)

lights.off()

buzzer.off()

# In Compiler:

```
#Blinking LED
import RPi.GPIO as GPIO
                           time
GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(18,GPIO.OUT)
print("LED on") GPIO.output(18,GPIO.HIGH)
time.sleep(1)
print("LED off")
GPIO.output(18,GPIO.LOW)
#Traffic Light
from gpiozero import Button, TrafficLights, Buzzer from time
import sleep
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
#Red LED
#Green LED
     button.wait_for_press()
     buzzer.on() light.green.on() sleep(1) lights.amber.on() sleep(1) lights.red.on()
     sleep(1)
     sleep(1)
     lights.off() buzzer.off()
```