#### **ASSIGNMENT-3**

## **Python Program**

Assignment Date	03 October 2022
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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)

lights = TrafficLights(25, 8, 7)

#Button 21

#Red LED 25

#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
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)
lights = TrafficLights(25, 8, 7)
#Button
#Red LED
#Yellow LED
#Green LED
#Buzzer
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()
```