

### Assignment – 3

#### PYTHON PROGRAM

Assignment Date	07 october 2022
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Maximum Marks	2 Marks

#### Question 1 :

Write a python code for blinking LED in raspberry pi.

#### PROGRAM :

```
import time

import RPi.GPIO as GPIO ## Import GPIO library

GPIO.setmode(GPIO.BOARD) ## Use board pin numbering

GPIO.setup(11, GPIO.OUT) ## Setup GPIO Pin 11 to OUT

while True:

    GPIO.output(11,True) ## Turn on Led

    time.sleep(1) ## Wait for one second

    GPIO.output(11,False) ## Turn off Led

    time.sleep(1) ## Wait for one second
```

```
blinking led.py - C:\Users\TUCOT\AppData\Local\Programs\Python\Python37\blinking led.py [3.7.0]
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import time
import RPi.GPIO as GPIO      ## Import GPIO library
GPIO.setmode(GPIO.BOARD)     ## Use board pin numbering
GPIO.setup(11, GPIO.OUT)     ## Setup GPIO Pin 11 to OUT

while True:
    GPIO.output(11,True)     ## Turn on Led
    time.sleep(1)            ## Wait for one second
    GPIO.output(11,False)    ## Turn off Led
    time.sleep(1)            ## Wait for one second
```

## Question 2 :

Write a python code for traffic light in raspberry pi .

### PROGRAM

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()

light . green . on()

sleep(1)

light . amber . on()

sleep(1)

light . red . on()

sleep(1)

light . off()

buzzer . off

```
Untitled
File Edit Format Run Options Window Help
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()
    light . green . on()
    sleep(1)
    light . amber . on()
    sleep(1)
    light . red . on()
    sleep(1)
    light . off()
    buzzer . off
```