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
```

```
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()

```
import RPi.GPIO as GPIO        ## Import GPIO library
GPIO.setup
```

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
```