Assignment – 3

PYTHON PROGRAM

Assignment Date	07 october 2022
Student Name	V.ALEX
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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
```

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
```