Assignment – 3

PYTHON PROGRAM

| Assignment Date | 07 october 2022 |
|---------------------|-----------------------|
| Student Name | S.SIVAKARTHIKA |
| Student Roll Number | E1194036/812419106044 |
| 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/Uber/ELCOT/AppDsta/Local/Programs/Python/Python37/blinking led.py (3.7.0)

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Import RF1.GF10 as GF10

$# Import GF10. Stand GF10

## Use board pin numbering

## Options window Help

## Use board pin numbering

## Options window Help

## Use board pin numbering

## Options window Help

## Use board pin numbering

## Options window Help

## Wait for one second

GF10.output(11,Tale) ## Turn on Edd

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

## Wait for one second

## 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
```

```
light . green . on()
sleep(1)
light . amber . on()
sleep(1)
light . red . on()
sleep(1)
light . off()
buzzer . off
```

```
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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
```