ASSIGNMENT -3

Name: SURYAA E N

Register Number: 718019L141

DOMAIN: IOT

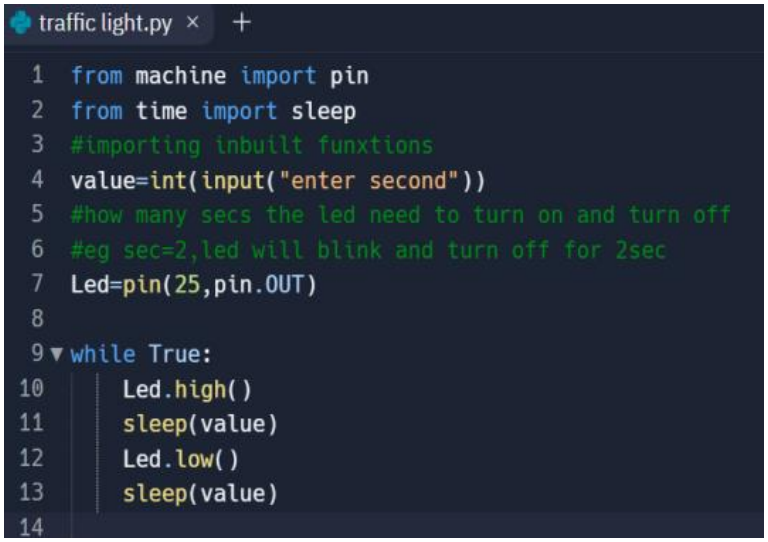
TOPIC:

Write Python code for Blinking LED and Traffic Lights for Raspberry Pi. Only the Python code is enough and need not to execute it in the board.

CODE:

CODE FOR BLINKING OF LED :

```
from machine import pin
from time import sleep
#importing inbuilt funxtions
value=int(input("enter second"))
#how many secs the led need to turn on and turn off
#eg sec=2,led will blink and turn off for 2sec
Led=pin(25,pin.OUT)
while True:
Led.high()
sleep(value)
Led.low()
sleep(value)
```



TRAFFIC LIGHT CODE:

```
from gpiozero import LED
from time import sleep
#importing inbuilt functions
#5,6,13 indicates gpio pins
green= LED(5)
red= LED(6)
blue= LED(13)
while True:
 #initially all the lights are off
green.off()
red.off()
blue.off()
sleep(1)
#green led will on for 1s
green.on()
sleep(1)
#green led will turn off after 1s and red led will turn on
green.off()
red.on()
sleep (1)
red.off()
blue.on()
sleep(1)
```