ASSIGNMENT ~3

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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)
```

```
main (copy).py × +

1  from gpiozero import LED
2  from time import sleep
3  #importing inbult functions
4  #5,6,13 indicates gpio pins
5  green= LED(5)
6  red= LED(6)
7  blue= LED(13)
8  while True:
9  #initially all the lights are off
10  green.off()
11  red.off()
12  blue.off()
13  sleep(1)
14  #green led will on for 1s
15  green.on()
16  sleep(1)
17  #green led will turn off after 1s and red led will turn on
18  green.off()
19  red.on()
20  sleep (1)
21  red.off()
22  blue.on()
23  sleep(1)
```