## **IBM Project Assignment 3**

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Maximum Marks	2 Marks

## **Question:**

Write python code for blinking LED and Traffic lights for Raspberry pi.(only python code).

## Python code for blinking LED:

```
import RPi.GPIO as GP
```

from time import sleep

```
GP.setwarnings(False)
```

GP.setmode(GP.BOARD)

GP.setup(8,GP.OUT,initial=GP.LO

W)

```
while True: #infinite loop
```

GP.output(8, GPIO.HIGH) # Turn on

print("The LED is ON")

sleep(2) # Sleep for 2 second

GP.output(8, GPIO.LOW) # Turn

off print("The LED is OFF")

sleep(2) # Sleep for 2 second

## **Python code for Traffic lights:**

```
from gpiozero import LED from
time import sleep
red = LED(17)
                        #pin numbers connected to Led's
aster=(22) green=(27)
while True:
  red.on()
                      #RED LIGHT
  print("Red light is ON") for
i in range(100,0,-1):
print("Remaining time: ",i)
    sleep(1)
red.off()
                      # ASTER
  aster.on()
LIGHT print("Yellow light is ON")
                      for i in
range(5,0,-1):
    print("Remaining time: ",i)
    sleep(1)
aster.off()
  green.on
                      #GREEN
LIGHT print("Green light is ON")
                      for i in
range(30,0,-1):
    print("Remaining time: ",i)
    sleep(1)
green.off()
```