

### **IBM ASSIGNMENT 3**

#### **TOPIC: PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY PI**

TEAM LEADER : V.SANTHIYA (922519104138)

TEAM MEMBER 1 : A.SOWMIYA (922519104152)

TEAM MEMBER 2 : G.SOWMIYA (922519104153)

TEAM MEMBER 3 : K.YUVASHANKARI (922519104184)

#### **FOR LED:**

```
import RPi.GPIO as GP
from time import sleep
GP.setwarnings(False)
GP.setmode(GP.BOARD)
GP.setup(8,GP.OUT,initial=GP.LOW)
while True:
    GP.output(8, GPIO.HIGH)
    print("The LED is ON")
    sleep(2)
    GP.output(8, GPIO.LOW)
    print("The LED is OFF")
    sleep(2)
```

#### **FOR TRAFFIC LIGHTS:**

```
From gpiozero import LED
From time import sleep
Red= LED(17)
Aster=(22)
```

```
Green=(27)
while True:
    Red.on()
    Print("Red light is ON")
    For R in range(100,0,-1):
        Print("Remaining time: ",i)
        Sleep(1)
    Red.off()
    Aster.on()
    Print("Yellow light is ON")
    For Y in range(5,0,-1):
        Print("Remaining time: ",i)
        Sleep(1)
    Aster.off()
    Green.on
    Print("Green light is ON")
    For G in range(30,0,-1):
        Print("Remaining time: ",i)
        Sleep(1)
    Green.off()
```