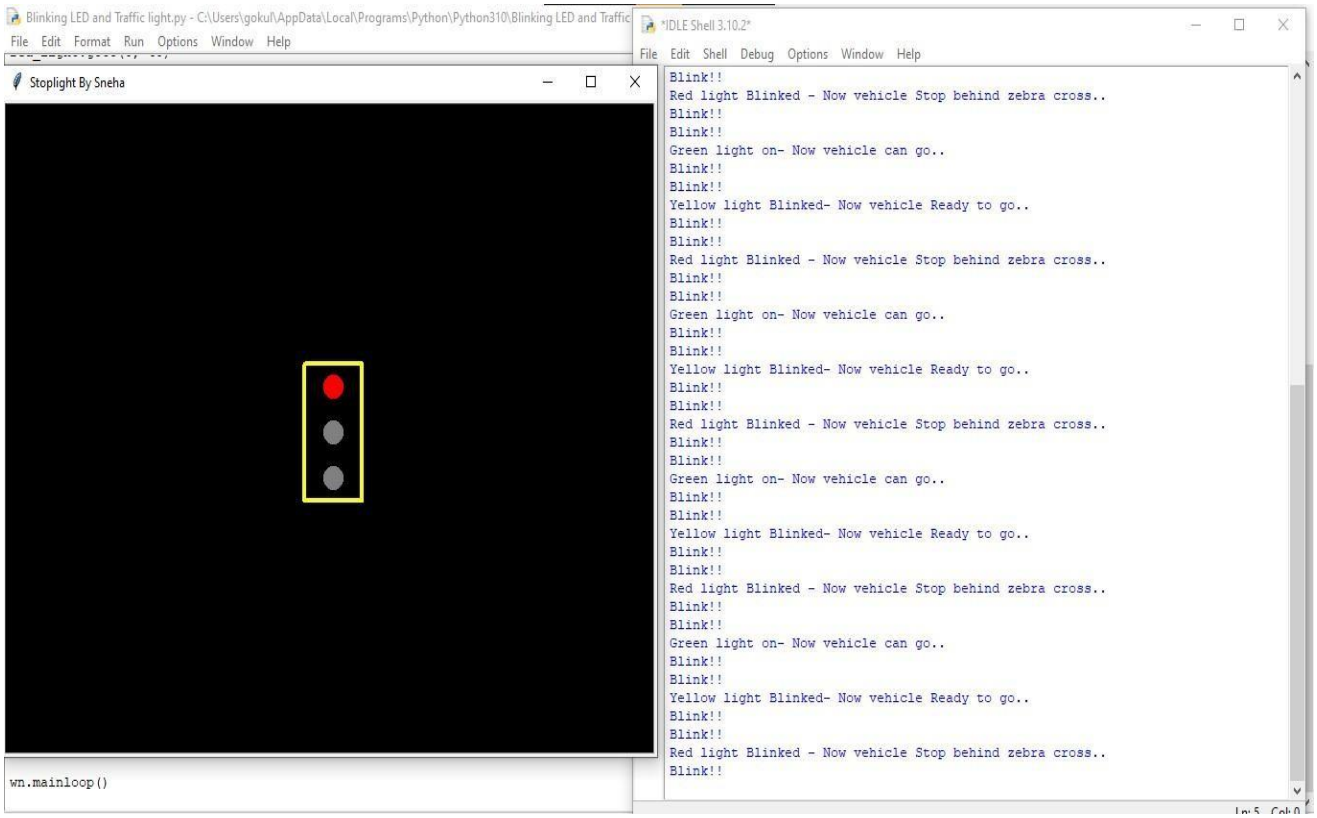
ASSIGNMENT-3

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

```
import turtle
import time
wn= turtle.getscreen()
wn.title("Stoplight By Sneha")
wn.bgcolor("black")


pen= turtle.Turtle()
pen.color("Yellow")
pen.width(4)
pen.hideturtle()
pen.penup()
pen.goto(-30, 60)
pen.pendown()
pen.fd(60)
pen.rt(90)
pen.fd(120)
pen.rt(90)
pen.fd(60)
pen.rt(90)
pen.fd(120)




red_light =turtle.Turtle()
red_light.shape("circle")
red_light.color("grey")
red_light.penup()
red_light.goto(0, 40)
```

```
    yellow_light =turtle.Turtle()
    yellow_light.shape("circle")
    yellow_light.color("grey")
    yellow_light.penup()
    yellow_light.goto(0, 0)

    green_light =turtle.Turtle()
    green_light.shape("circle")

    green_light.color("grey")
    green_light.penup()
    green_light.goto(0, -40)


    while True:
        yellow_light.color("grey")
        red_light.color("red")
        print("Red light Blinked - Now vehicle Stop behind zebra
cross..")
        print("Blink!!")
        time.sleep(2)
        print("Blink!!")

        red_light.color("grey")
        green_light.color("green")
        print("Green light on- Now vehicle can go..")
        print("Blink!!")
        time.sleep(3)
        print("Blink!!")

        green_light.color("grey")
        yellow_light.color("yellow")
        print("Yellow light Blinked- Now vehicle Ready to go..")
        print("Blink!!")
        time.sleep(1)
        print("Blink!!")


    wn.mainloop()
```

OUTPUT:


Blinking LED and Traffic light.py - C:\Users\gokul\AppData\Local\Programs\Python\Python310\Blinking LED and Traffic
File Edit Format Run Options Window Help
Stoplight By Sneha
wn.mainloop()
IDLE Shell 3.10.2
File Edit Shell Debug Options Window Help
Blink!!
Red light Blinked - Now vehicle Stop behind zebra cross..
Blink!!
Blink!!
Green light on- Now vehicle can go..
Blink!!
Blink!!
Yellow light Blinked- Now vehicle Ready to go..
Blink!!
Blink!!
Red light Blinked - Now vehicle Stop behind zebra cross..
Blink!!
Blink!!
Green light on- Now vehicle can go..
Blink!!
Blink!!
Yellow light Blinked- Now vehicle Ready to go..
Blink!!
Blink!!
Red light Blinked - Now vehicle Stop behind zebra cross..
Blink!!
Blink!!
Green light on- Now vehicle can go..
Blink!!
Blink!!
Yellow light Blinked- Now vehicle Ready to go..
Blink!!
Blink!!
Red light Blinked - Now vehicle Stop behind zebra cross..
Blink!!
Blink!!
Green light on- Now vehicle can go..
Blink!!
Blink!!
Yellow light Blinked- Now vehicle Ready to go..
Blink!!
Blink!!
Red light Blinked - Now vehicle Stop behind zebra cross..
Blink!!