ASSIGNMENT - 3

DATE	08-10-2022
NAME	Sivasangari P
ROLL NO	420419205016
TEAM ID	PNT2022TMID38668
PROJECT TITLE	Gas Leakage Monitoring And Alerting System For Industries

QUESTION :

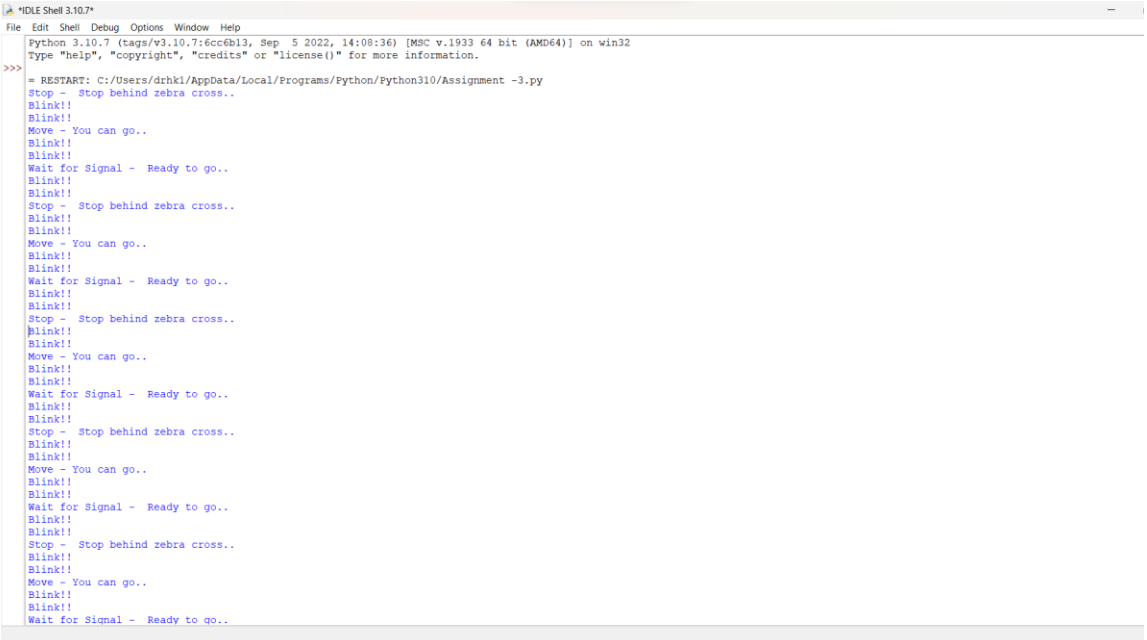
Write python code for blinking LED and Traffic lights for Raspberry pi .

SOURCE CODE :

```
import turtle
import time
a = turtle.getscreen()
a.title("TrafficLight ")
a.bgcolor("black")

write= turtle.Turtle()
write.color("White")
write.width(3)
write.hideturtle()
write.penup()
write.goto(-30, 60)
write.pendown()
write.fd(60)
write.rt(90)
write.fd(120)
write.rt(90)
write.fd(60)
write.rt(90)
write.fd(120)


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

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

green_light =turtle.Turtle()
```

```
green_light.shape("circle")
green_light.color("Black")
green_light.penup()
green_light.goto(0,-40)



while (1):
        green_light.color("Black")
        yellow_light.color("Black")
        red_light.color("red")
        print("Stop -  Stop behind zebra cross..")
        print("Blink!!")
        time.sleep(2)
        print("Blink!!")


        red_light.color("Black")
        yellow_light.color("yellow")
        print("Move - You can go..")
        print("Blink!!")
        time.sleep(3)
        print("Blink!!")


        yellow_light.color("Black")
        green_light.color("green")
        print("Wait for Signal -  Ready to go..")
        print("Blink!!")
        time.sleep(1)
        print("Blink!!")


a.mainloop()
```

OUTPUT:




```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/drhk1/AppData/Local/Programs/Python/Python310/Assignment -3.py
Stop -  Stop behind zebra cross..
Blink!!
Blink!!
Move - You can go..
Blink!!
Blink!!
Wait for Signal -  Ready to go..
Blink!!
Blink!!
Stop -  Stop behind zebra cross..
Blink!!
Blink!!
Move - You can go..
Blink!!
Blink!!
Wait for Signal -  Ready to go..
Blink!!
Blink!!
Stop -  Stop behind zebra cross..
Blink!!
Blink!!
Move - You can go..
Blink!!
Blink!!
Wait for Signal -  Ready to go..
Blink!!
Blink!!
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Blink!!
Blink!!
Move - You can go..
Blink!!
Blink!!
Wait for Signal -  Ready to go..
Blink!!
Blink!!
Stop -  Stop behind zebra cross..
Blink!!
Blink!!
Move - You can go..
Blink!!
Blink!!
Wait for Signal -  Ready to go..
```

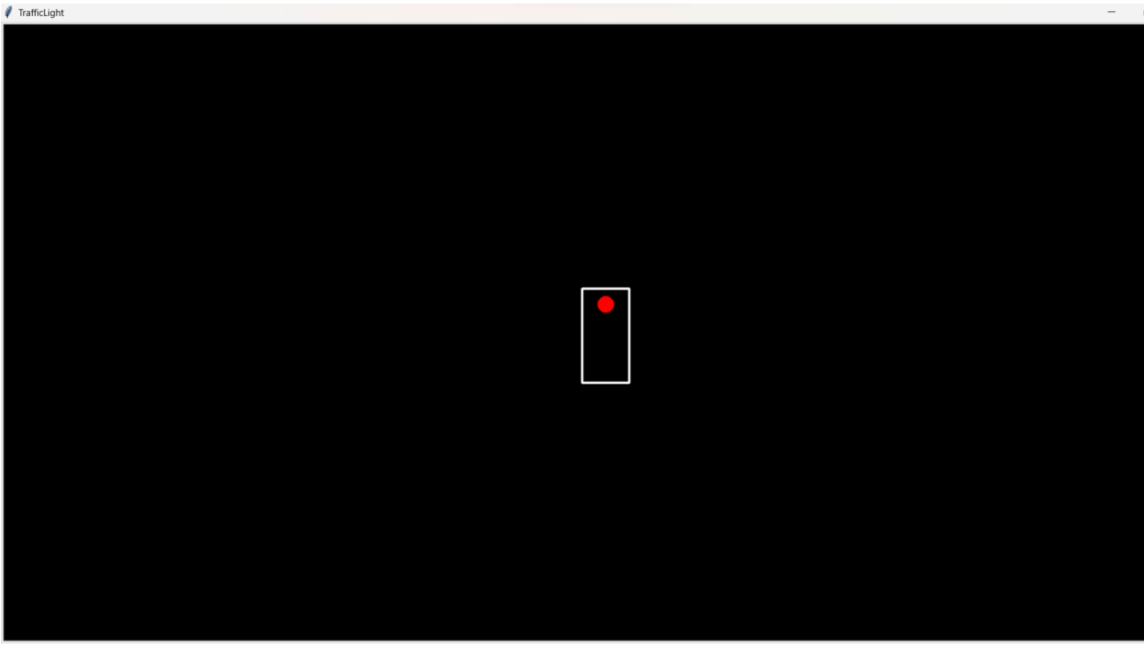

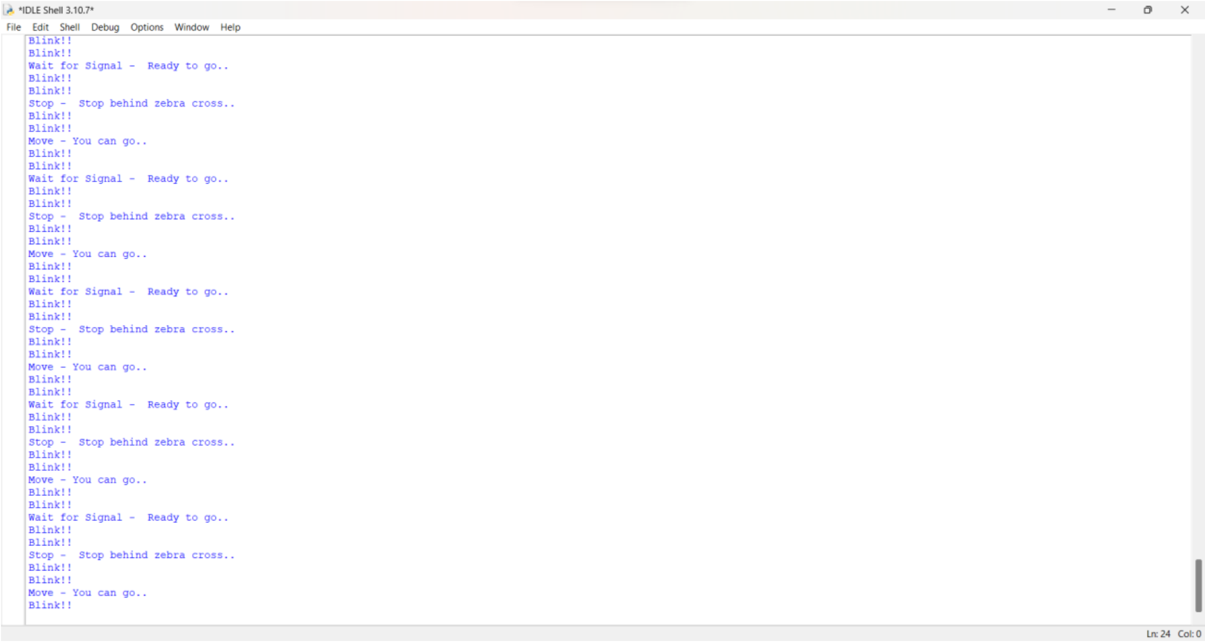
IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Blink!!
Blink!!
Wait for Signal - Ready to go..
Blink!!
Blink!!
Stop - Stop behind zebra cross..
Blink!!
Blink!!
Move - You can go..
Blink!!
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Wait for Signal - Ready to go..
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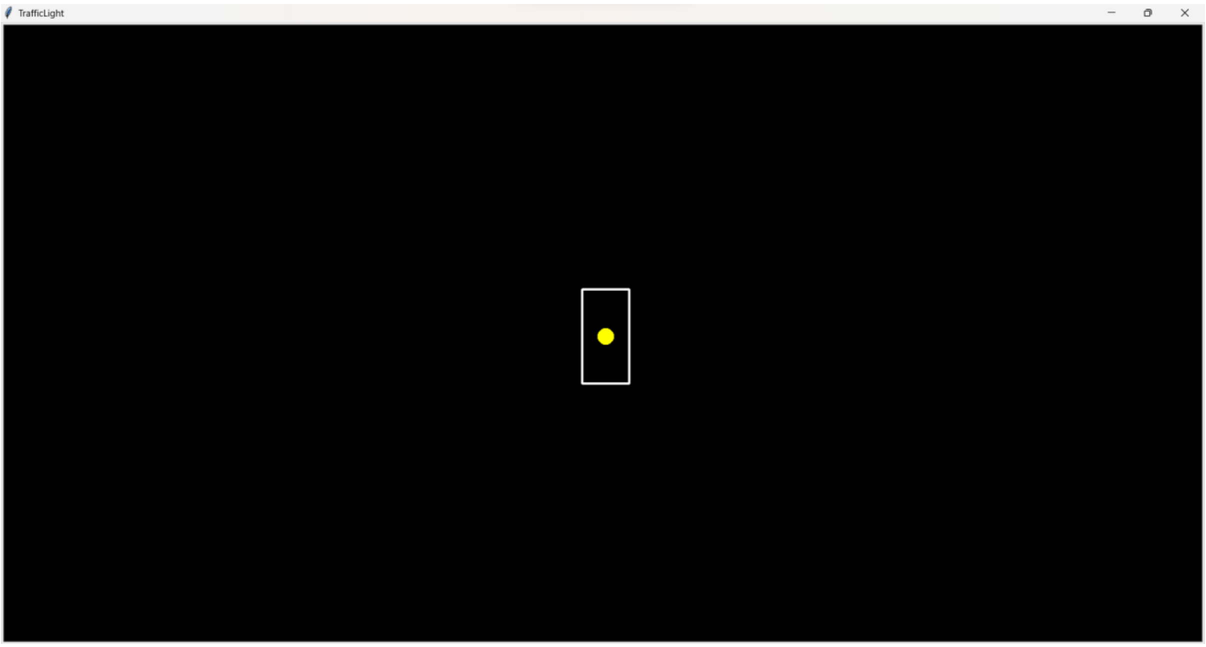
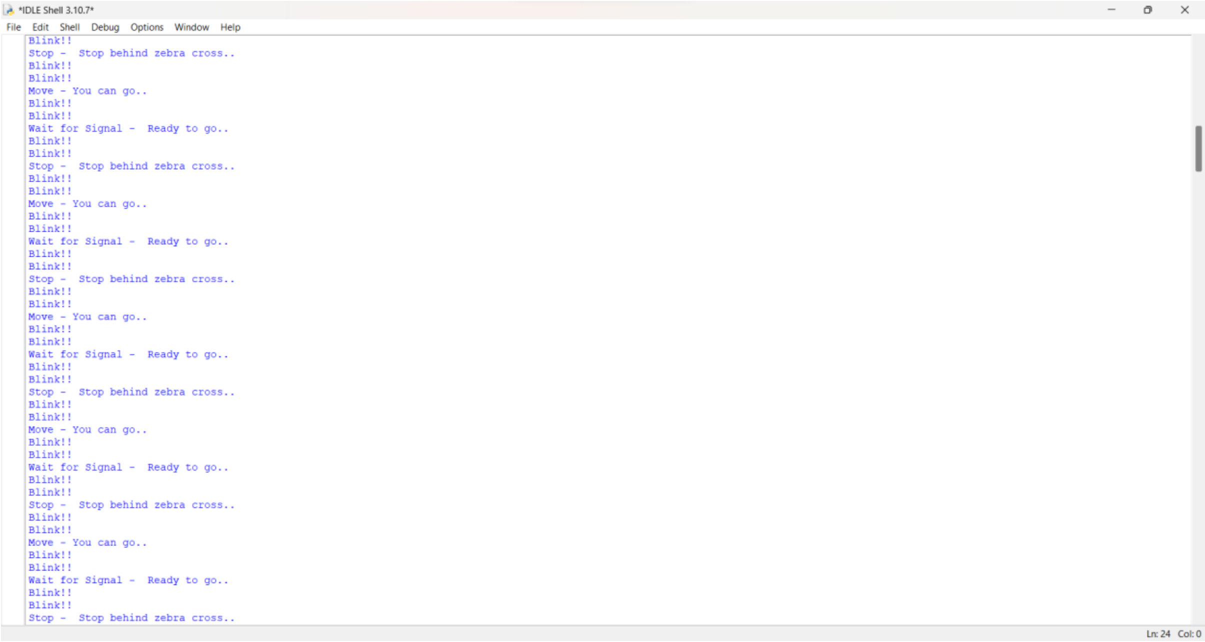
Move - You can go..
Blink!!
Blink!!
Wait for Signal - Ready to go..
Blink!!
Blink!!
Stop - Stop behind zebra cross..
Blink!!
Blink!!
Move - You can go..
Blink!!
Ln: 24 Col: 0


TrafficLight


IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Blink!!
Stop - Stop behind zebra cross..
Blink!!
Blink!!
Move - You can go..
Blink!!
Blink!!
Wait for Signal - Ready to go..
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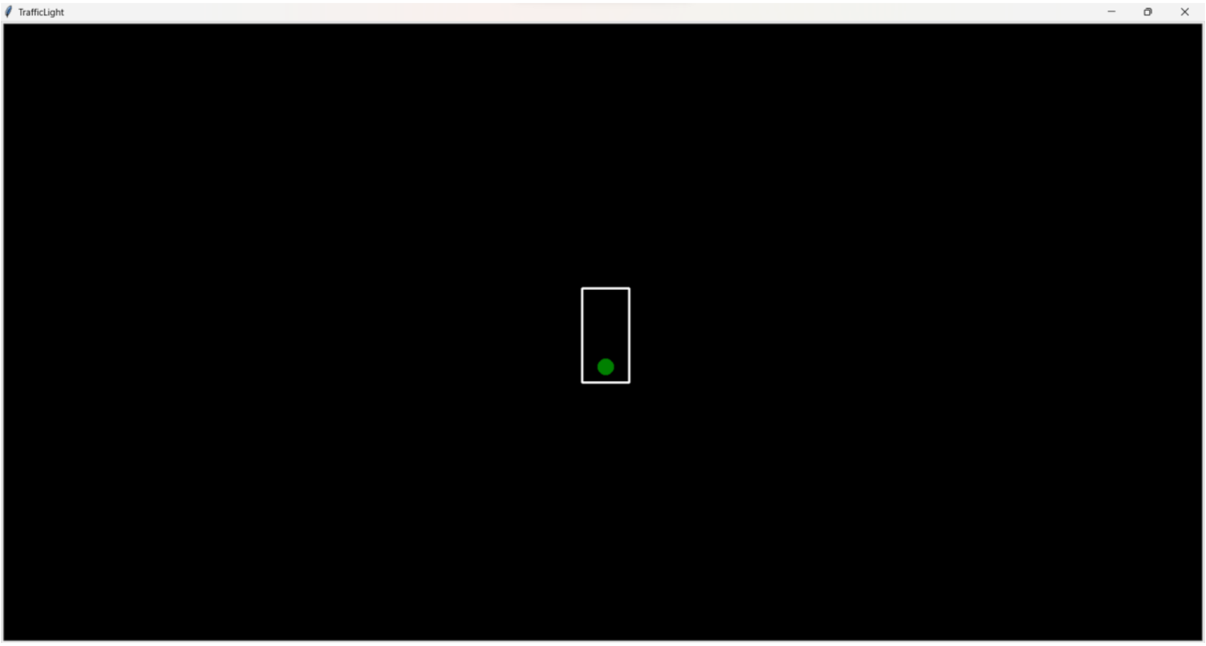
Ln: 24 Col: 0


TrafficLight