

ASSIGNMENT-III

PYTHON PROGRAMMING

ASSIGNMENT DATE	05 OCT 2022
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MAXIMUM MARK	2 MARK

Question:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi. Note: you are allowed to use web search and complete the assignment.

AIM:

To write a python code for blinking LED and Traffic Lights for Raspberry Pi.

SOFTWARE USED:

Python IDLE 3.10.7 (64 bit)

PROGRAM:

```
import turtle
import time
wn=turtle.getscreen()
wn.title("Traffic Light")
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)
```

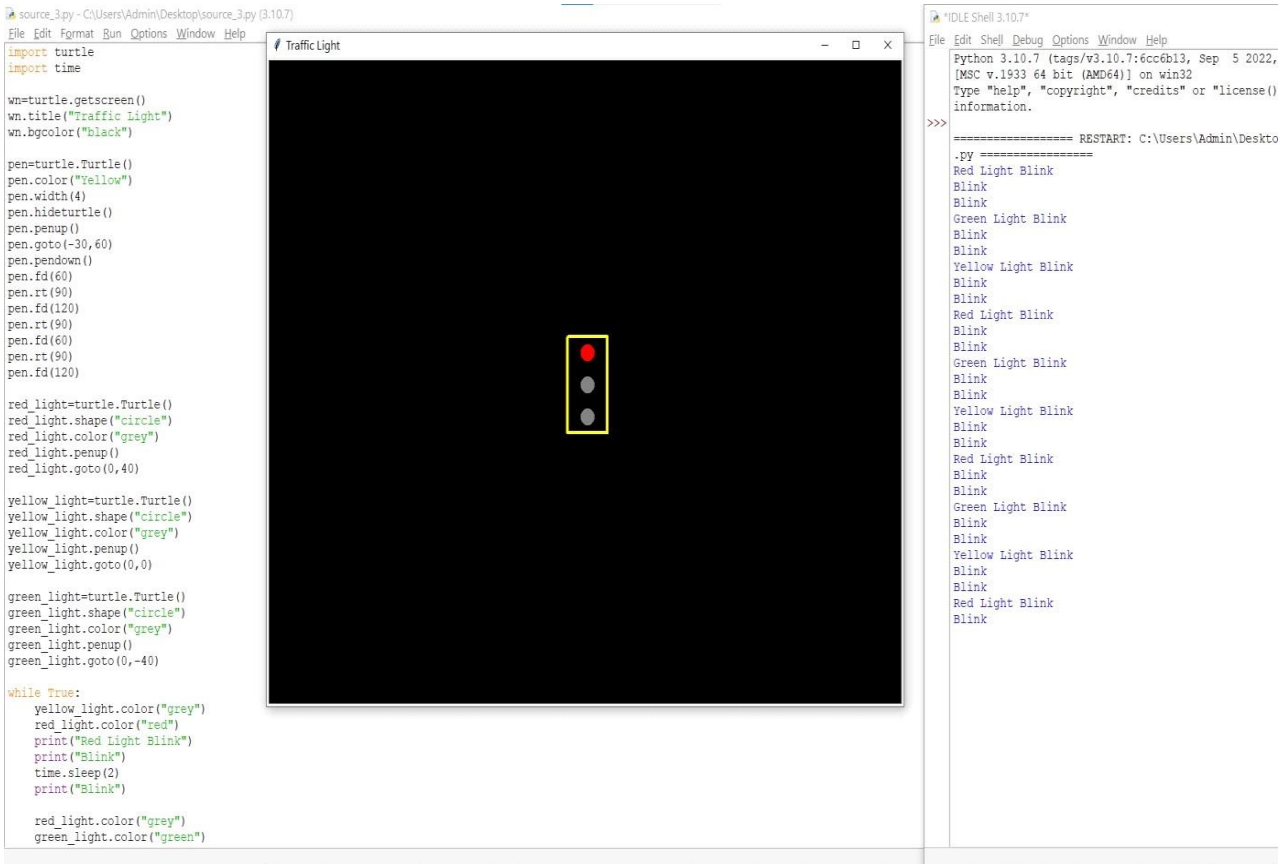
```
red_light=turtle.Turtle()
red_light.shape("circle")
red_light.color("grey")
red_light.penup() red_light.goto(0,40)
yellow_light=turtle.Turtle()
yellow_light.shape("circle")
yellow_light.color("grey")
yellow_light.penup()
yellow_light.goto(0,0)
green_light=turtle.Turtle()
green_light.shape("circle")
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 Blink")
    print("Blink")
    time.sleep(2)
    print("Blink")

    red_light.color("grey")
    green_light.color("green")
    print("Green Light Blink")
    print("Blink")
    time.sleep(3)
    print("Blink")

    green_light.color("grey")
    yellow_light.color("yellow")
    print("Yellow Light Blink")
    print("Blink")
    time.sleep(2)
    print("Blink")

wn.mainloop()
```

SIMULATION OUTPUT:



RESULT:

Thus, I have successfully compiled a python code for blinking LED and TrafficLights for Raspberry Pi.