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ASSIGNMENT-III

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:

```python
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)
```

```python
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()
```
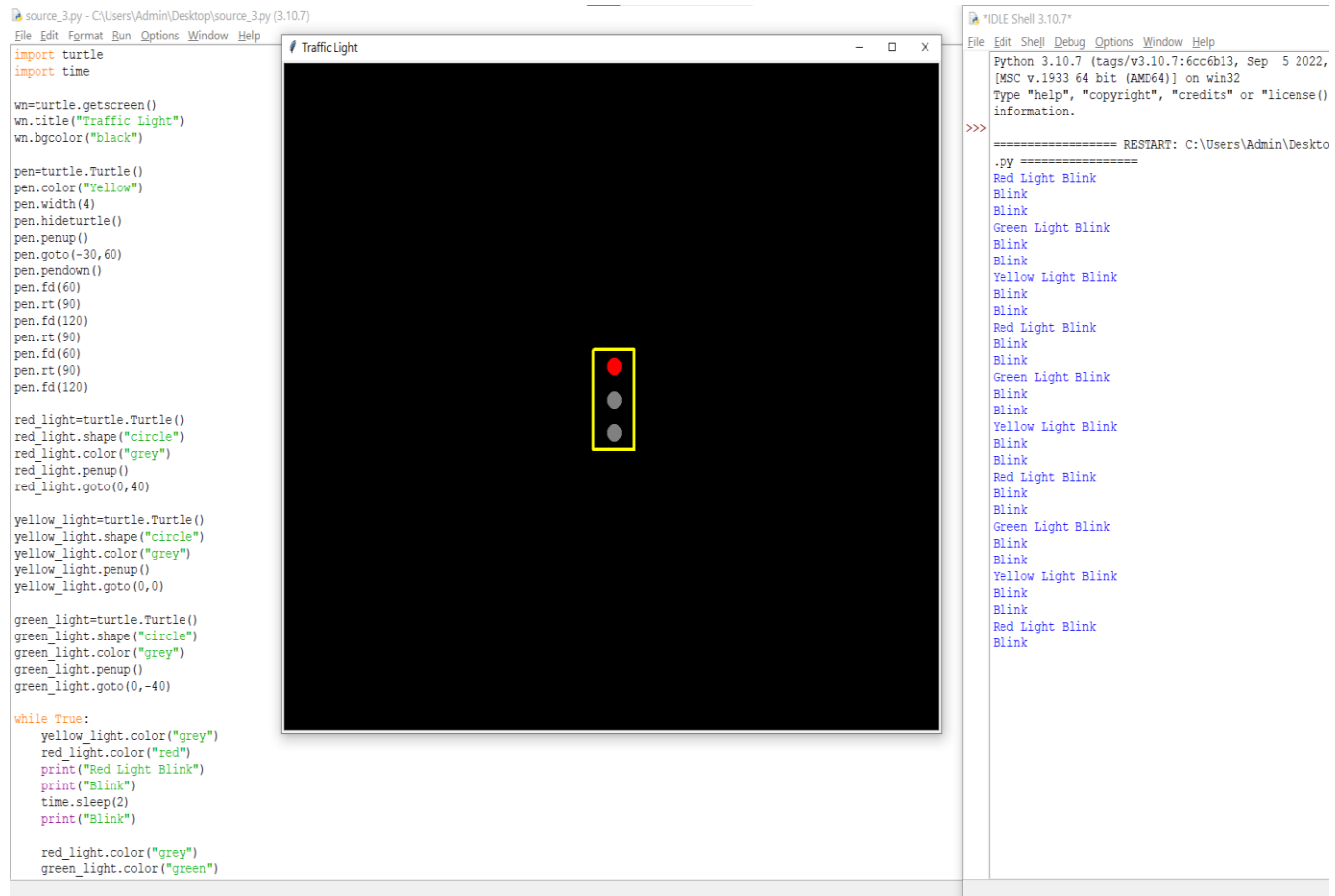
SIMULATION OUTPUT:

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RESULT:

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