ASSIGNMENT 3

Blinking LED and Traffic lights for Raspberry pi

DATE	06 - 10 -2022
TEAM ID	PNT2022MID49683
PROJECT NAME	Smart Crop Protection Systems IoT Based

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute on raspberry pi.

Note: you are allowed to use web search and complete the assignment.

Program:

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

```
pen= turtle.Turtle()
pen.color("black")
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:







