Assignment -3

Python Programming

Assignment Date	30 September 2022
Student Name	HEMA PRIYA H
Student Roll Number	211419106103
Maximum Marks	2 Marks

Question:

1. **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**

   Code:

```
#Traffic light for raspberry pi simulating in python with GUI



import turtle

import time

wn= turtle.getscreen()

wn.title("Stoplight By Hema Priya H")

wn.bgcolor("black")



#gui interfrace

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

red_light =turtle.Turtle()

red_light.shape("circle")

red_light.color("grey")

red_light.penup()

red_light.goto(0, 40)


#Yellow light

yellow_light =turtle.Turtle()

yellow_light.shape("circle")
```

```
yellow_light.color("grey")

yellow_light.penup()

yellow_light.goto(0, 0)


#Green light

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 Screenshot:

OUTPUT WITH GUI INTERFACE