Assignment -3

Python Programming

Assignment Date	30 September 2022
Student Name	Deepalakshmi M
Student Roll Number	211419106061
Maximum Marks	2 Marks

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

Code:

#Traffic light for raspberry pi simulating in python with GUI

```
import turtle
import time
wn= turtle.getscreen()
wn.title("Stoplight By Deepalakshmi")
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

