Assignment -3

Python Programming

Assignment Date	30 September 2022
Student Name	Kalai kaviya.v.b
Student Roll Number	211419106118
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

#Traffic light for raspberry pi simulating in python with GUI import turtle import time wn=turtle.getscreen() wn.title("Stoplight By kalai kaviya") 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

