Assignment -3

Python Programming

Assignment Date	30 September 2022
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Maximum Marks	2 Marks

Question:

pen.width(4)

pen.penup()

pen.hideturtle()

pen.goto(-30, 60)

 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 Divya") wn.bgcolor("black") #gui interfrace pen= turtle.Turtle() pen.color("Yellow")

```
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")
```

pen.pendown()

```
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

