

Output Screenshot with GUI interface:



Assignment -3

Python Programming

Assignment Date	30 September 2022
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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 kiruthika") 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 with GUI interface:

