

Assignment -3

211419106140

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

AIM:

To Traffic light for raspberry pi simulating in python with GUI

```
import turtle import time wn=
```

```
turtle.getscreen()
```

```
wn.title("Stoplight By Harish")
```

```
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_lig ht.color("grey")  
    green_light.color("green") print("Green light  
    on- Now vehicle can go..") print("Blink!!")  
    time.sleep(3) print("Blink!!")
```

```
    green_lig ht.color("grey") yellow_light.color("yellow")  
    print("Yellow light Blinked- Now vehicle Ready to go..")  
    print("Blink!!") time.sleep(1) print("Blink!!")
```

wn.mainloop()