

ASSIGNMENT :3

Traffic light for raspberry pi simulating in pycharm with GUI

```
Import turtle
```

```
Import time
```

```
Wn= turtle.getscreen()
```

```
Wn.title("Stoplight By Bhavatharani")
```

```
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("green")
```

```
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()
```