

Student Name	G K Vignesh
Assignment	3

Code:

```
#traffic light for raspberry pi simulating in pycharm with GUI
```

```
import turtle
```

```
import time
```

```
wn= turtle.getscreen()
```

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

```
wn.bgcolor("black")
```

```
#gui interface
```

```
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!!")

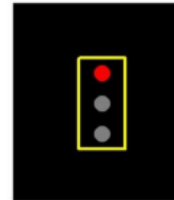
    green_light.color("grey")
    yellow_light.color("yellow")
    print("Yellow light Blinked- Now vehicle Ready to go..")
    print("Blink!!")
    time.sleep(1)
    print("Blink!!")

wn.mainloop()
```

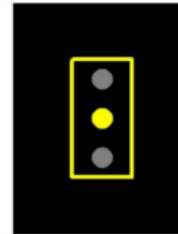
Output:

OUTPUT WITH GUI INTERFACE

```
C:\WINDOWS\py.exe
Red light Blinked - Now vehicle Stop behind zebra cross..
Blink!!
```



```
C:\WINDOWS\py.exe
Red light Blinked - Now vehicle Stop behind zebra cross..
Blink!!
Green light on- Now vehicle can go..
Blink!!
Yellow light Blinked- Now vehicle Ready to go..
Blink!!
```



```
Green light on- Now vehicle can go..
Blink!!
```

