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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!!")

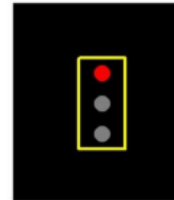
    green_light.color("grey")
    yellow_light.color("yellow")
    print("Yellow light Blinked- Now vehicle Ready to go..")
    print("Blink!!")
    time.sleep(1)
    print("Blink!!")

wn.mainloop()
```

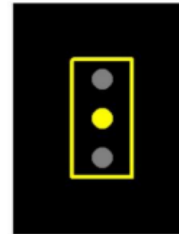
Output:

## 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!!
```

