

**Assignment 3**  
Python Programming

Assignment Date	29 September 2022
Student Name	Aarthim
Student Roll Number	712819104704
Maximum Marks	2 Marks

PROGRAM

```
#traffic light for raspberry pi simulating in pycharm with GUI
import turtle
import time
wn= turtle.getscreen()
wn.title("Stoplight By Gogulkrish")
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:
```

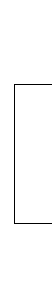
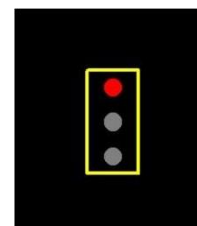
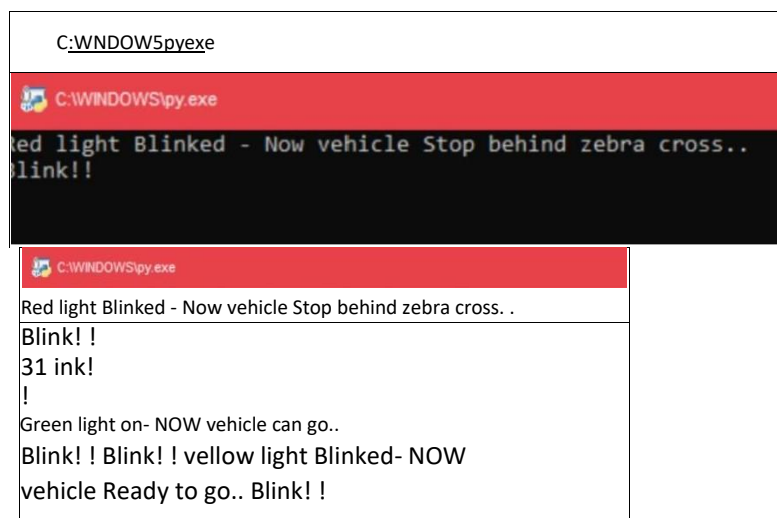
```
    yellow_light.color("grey"
    ) red_light.color('
    print("Red light Blinked - Now vehicle Stop behind zebra
    cross..") print(" Blink! !")time.sleep(2) print(" Blink! !")
```

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

```
wn.mainloop()
```

## OUTPUT WITH GUI INTERFACE



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

