

**Assignment -1**  
Python Programming

Assignment Date	19 September 2022
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Student Roll Number	19BEC07
Maximum Marks	2 Marks

**Question-1:**

**Write python code for blinking LED and Traffic Lights for Raspberry pi.**

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

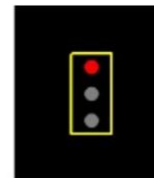
    green_light.color("grey") yellow_light.color("yellow")
    print("Yellow light Blinked- Now vehicle Ready to
    go..") print("Blink!!") time.sleep(1) print("Blink!!")

wn.mainloop()

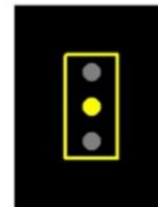
```

## OUTPUT

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



```
C:\WINDOWS\Spy.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!!
```

