

ASSIGNMENT 3

PYTHON PRORAMMING

ASSIGNEMENT	Python programming
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MAXIMUM MARK	2 MARKS

#traffic light for raspberry pi simululating in pycham 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, 50)
```

```
#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, -50)
```

```
while True:
```

```
    yellow_light.color("grey")
```

```
    red_light.color("red")
```

```
    print("Red light Blinked - Now vehicle Stop behind zebra cross..")
```

```
    print("Blink!!!")
```

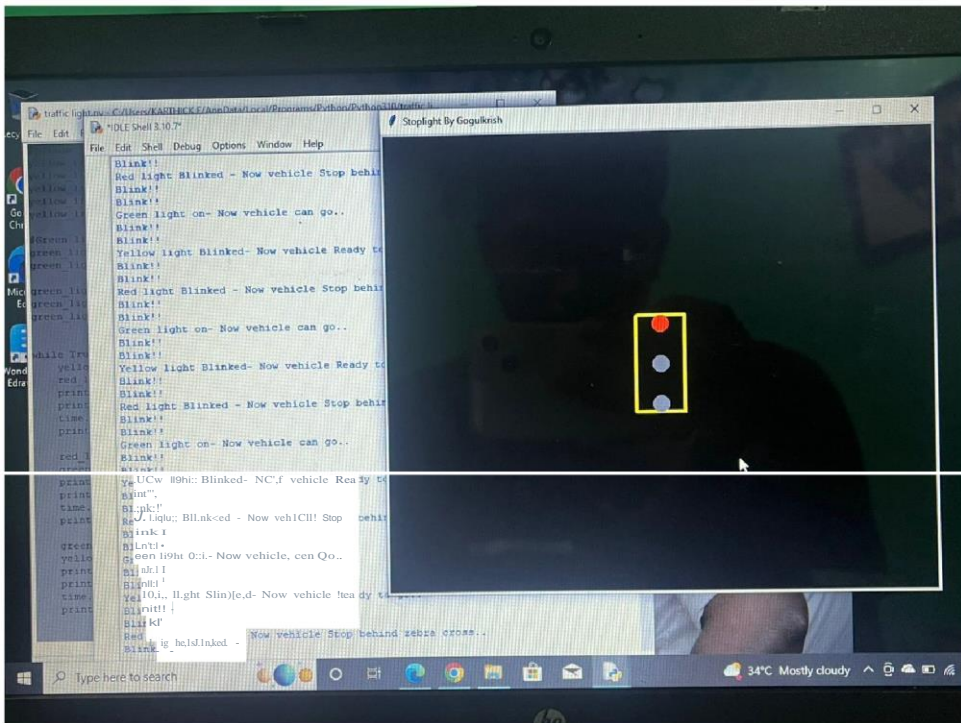
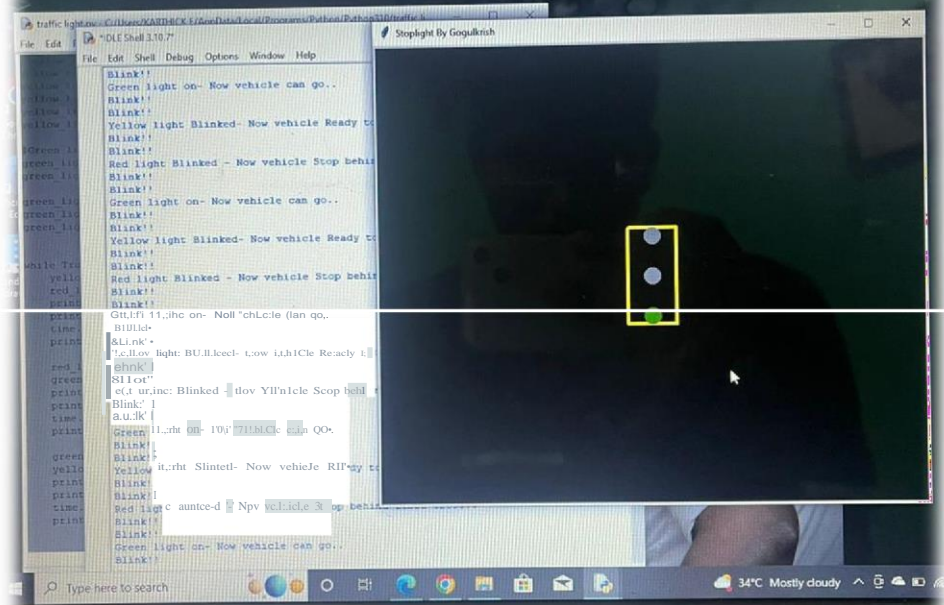
```
    time.sleep(2)
```

```
    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!!")
```



```
ython .iv., ltagslv .iv.1:occooi , ep v , i :v0: 0J tM v.i o oit l  
AMD64] on win32
```

Type "help", "copyright", "credits" or "license()" for more information.

```
• RESTART: C:/Users/KARTHICK E/AppData/Local/Programs/Python/Python310/traffic_l  
ight.py
```

```
Red light Blinked - Now vehicle Stop behind zebra cross..
```

```
Blink!!
```

```
Blink!!
```

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

```
Blink!!
```

```
Blink!!
```

```
Yellow light Blinked- Now vehicle Ready to go..
```

```
Blink!!
```

```
Blink!!
```

```
Red light Blinked - Now vehicle Stop behind zebra cross..
```

```
Blink!!
```

```
Blink!!
```

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

```
Blink!!
```

```
Blink!!
```

```
Yellow light Blinked- Now vehicle Ready to go..
```

```
Blink!!
```

```
Blink!!
```

```
Red light Blinked - Now vehicle Stop behind zebra cross..
```

```
Blink!!
```