ASSIGNMENT 3

PYTHON PRORAMMING

ASSIGNEMENT	Python programming
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MAXIMUM MARK	2 MARKS

```python
#traffic light for raspberry pi simlulating 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)
```

```python
#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")
```

```python
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!!")
```
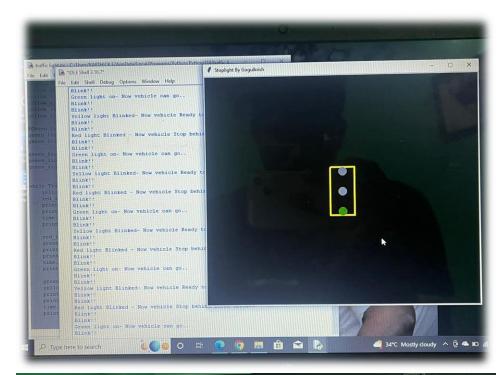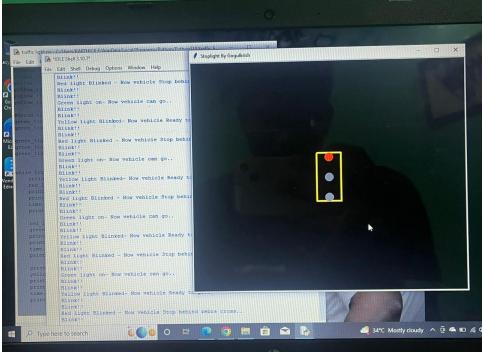
```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

= 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!!
```