

## Assignment -3

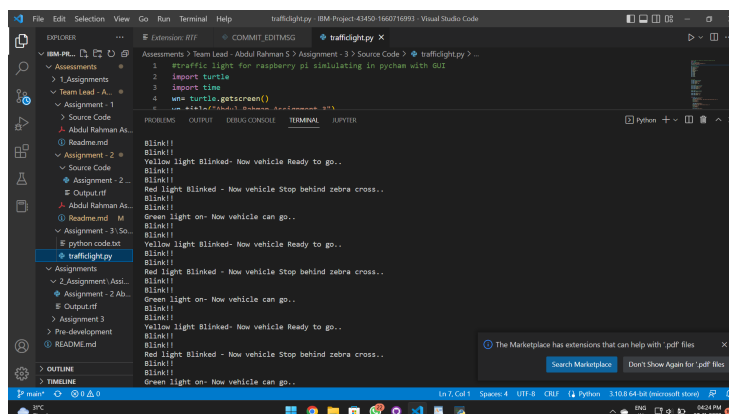
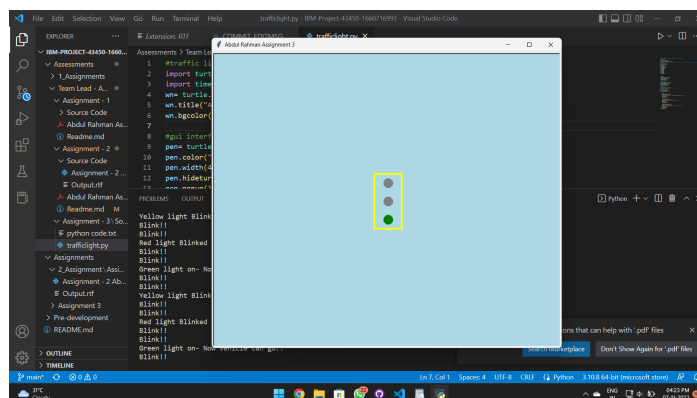
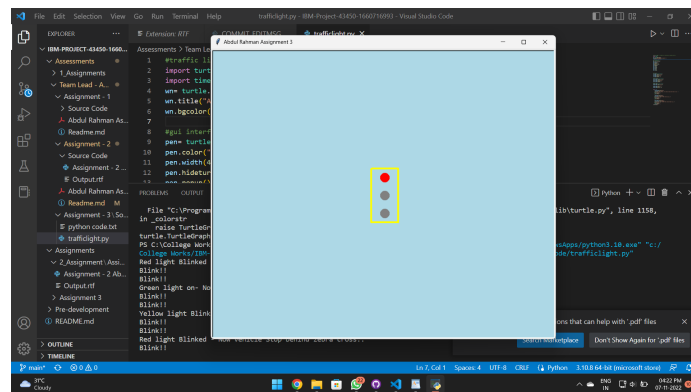
### Traffic lights for Raspberry pi

Date	29 September 2022
Student Name	Abdul Rahman S
Student Roll No	911719104002
Maximum Marks	2 Marks

#### Question-3:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi. Note: you are allowed to use web search and complete the assignment.

Output :



Code :

```
#traffic light for raspberry pi simlulating in pycham with GUI

import turtle

import time

wn= turtle.getscreen()

wn.title("Abdul Rahman Assignment 3")

wn.bgcolor("lightBlue")


#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()
```