Assignment – 3

Python Programming

Date	03 October 2022
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Team ID	PNT2022TMID04713
Project Name	IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	2 Marks

Question 1:

Write a python code for Blinking LED and Traffic Lights for Raspberry pi.

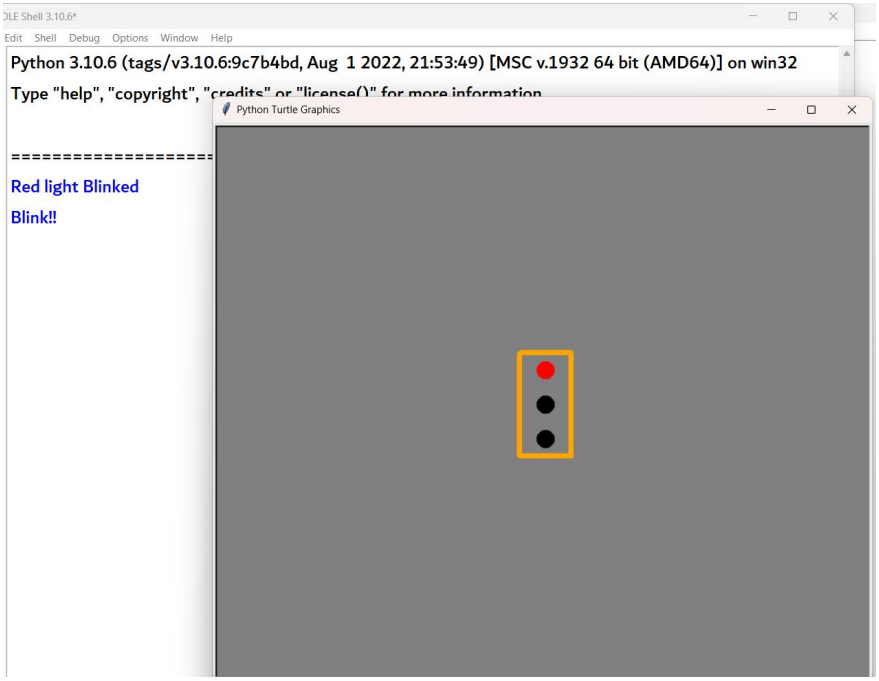
Solution:

```
import turtle
import time
wn= turtle.getscreen()
wn.bgcolor("grey")
#gui interfrace
pen= turtle.Turtle()
pen.color("orange")
pen.width(6)
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("black")
red_light.penup()
red_light.goto(0, 40)
#Yellow light
```

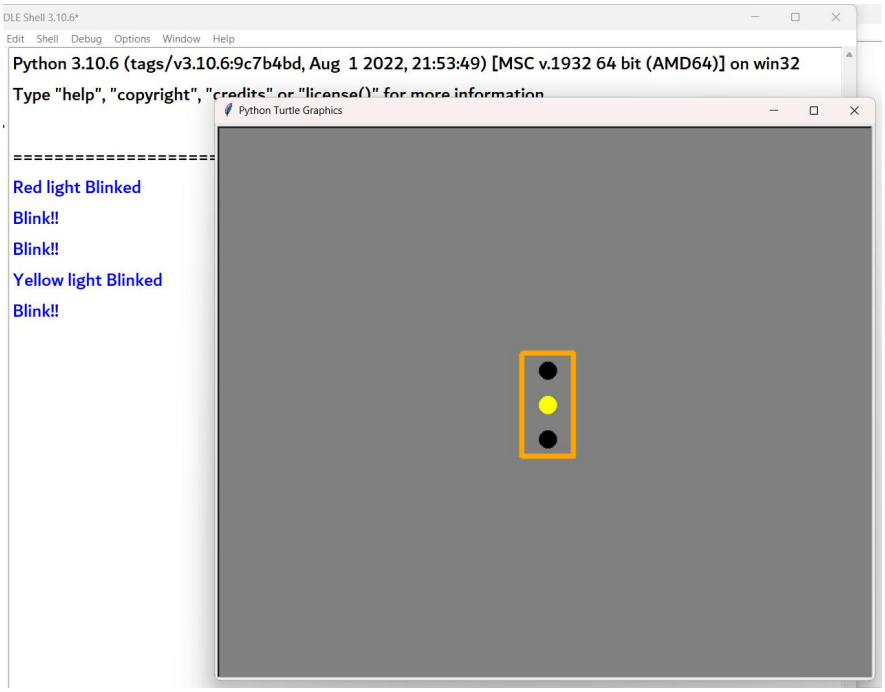
```
yellow_light =turtle.Turtle()
yellow_light.shape("circle")
yellow_light.color("black")
yellow_light.penup()
yellow_light.goto(0, 0)
#Green light
green_light =turtle.Turtle()
green_light.shape("circle")
green_light.color("black")
green_light.penup()
green_light.goto(0, -40)
while True:
green_light.color("black")
red_light.color("red")
print("Red light Blinked ")
print("Blink!!")
time.sleep(3)
print("Blink!!")
red_light.color("black")
yellow_light.color("yellow")
green_light.color("black")
print("Yellow light Blinked")
print("Blink!!")
time.sleep(3)
print("Blink!!")

red_light.color("black")
yellow_light.color("black")
green_light.color("green")
print("Green light on")
print("Blink!!")
time.sleep(2)
print("Blink!!")
wn.mainloop()
```

OUTPUT :

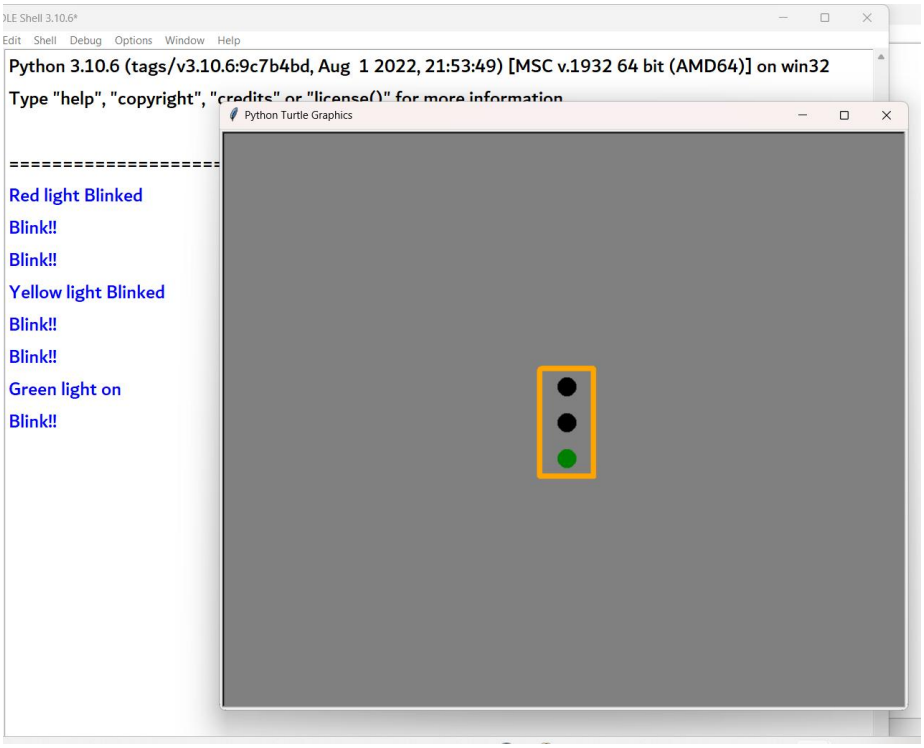
Red Light :



Yellow Light :



Green Light :


LE Shell 3.10.6*
Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
==========
Red light Blinked
Blink!!
Blink!!
Yellow light Blinked
Blink!!
Blink!!
Green light on
Blink!!
Python Turtle Graphics