

Assignment – 3

Python Programming

Date	03 October 2022
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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("orange")
#gui interfrace
pen= turtle.Turtle()
pen.color("black")
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")
```

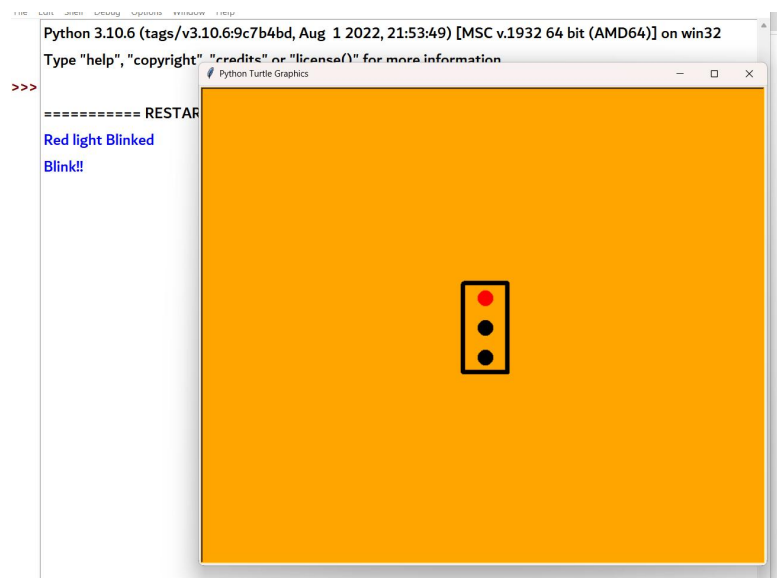
```
red_light.color("black")
red_light.penup()
red_light.goto(0, 40)
#Yellow light
yellow_light=turtle.Turtle()
yellow_light.shape("circle")
yellow_light.color("black")
yellow_light.penup()
yellow_light.goto(0, 0)
#Green light
green_light=turtle.Turtle()
green_light.shape("circle")
green_light.color("black")
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:

