Assignment – 3

Python Programming

Date	3 October 2022
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Project Name	IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	2 Marks

Question 1:

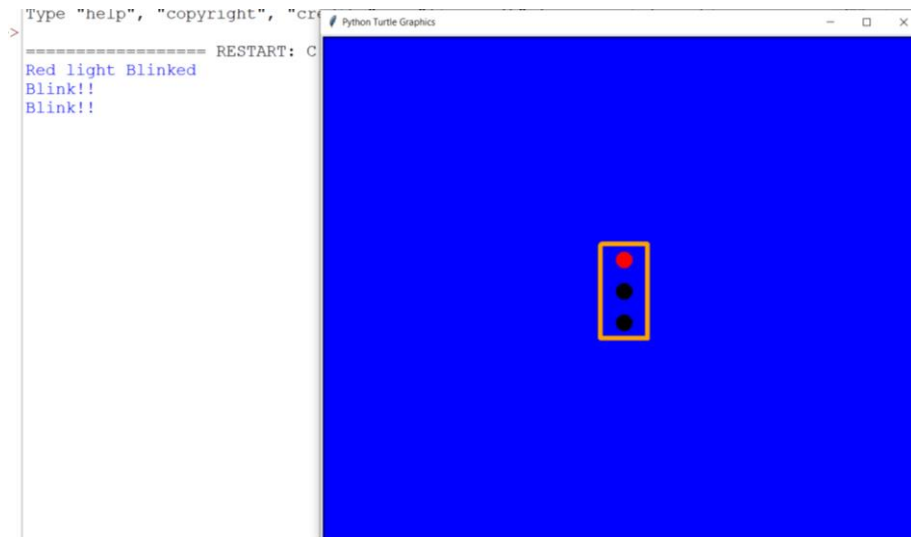Write a python code for Blinking LED and Traffic Lights for Raspberry pi.

Solution:

```python
import turtle
import time
wn= turtle.getscreen()
wn.bgcolor("Blue")
#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
```

```python
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!!")
```
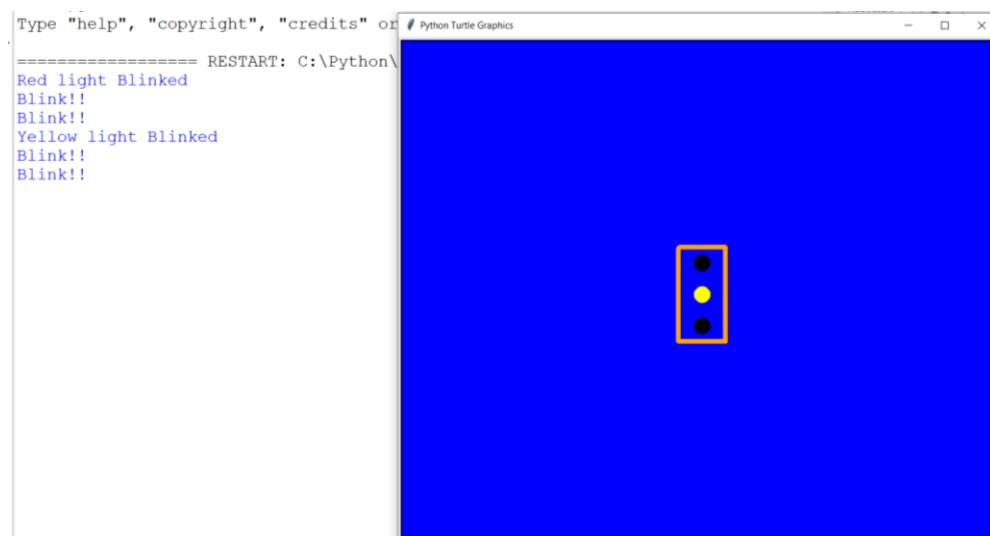
```
red_light.color("black")

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 :

```
================== RESTART: C:\Python\Python:
Red light Blinked
Blink!!
Blink!!
Yellow light Blinked
Blink!!
Blink!!
Green light on
Blink!!
Blink!!
```