

Date	30 September 2022
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Student Register Number/Roll Number	211419106034/2019PECEC115
Maximum Marks	2 Marks

Question:

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)

Code:

```
import turtle
import time
wn= turtle.getscreen()
wn.title("Stoplight By Arsha")
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)

#red light
```

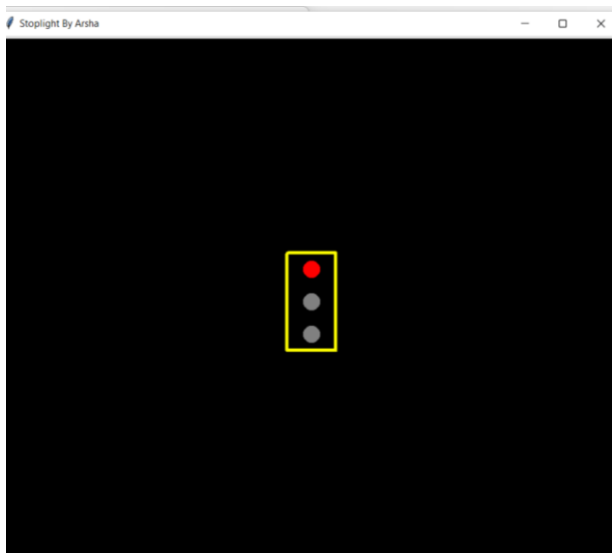
```
red_light =turtle.Turtle()
red_light.shape("circle")
red_light.color("grey")
red_light.penup()
red_light.goto(0, 40)
#Yellow light
yellow_light =turtle.Turtle()
yellow_light.shape("circle")
yellow_light.color("grey")
yellow_light.penup()
yellow_light.goto(0, 0)
#Green light
green_light =turtle.Turtle()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

```

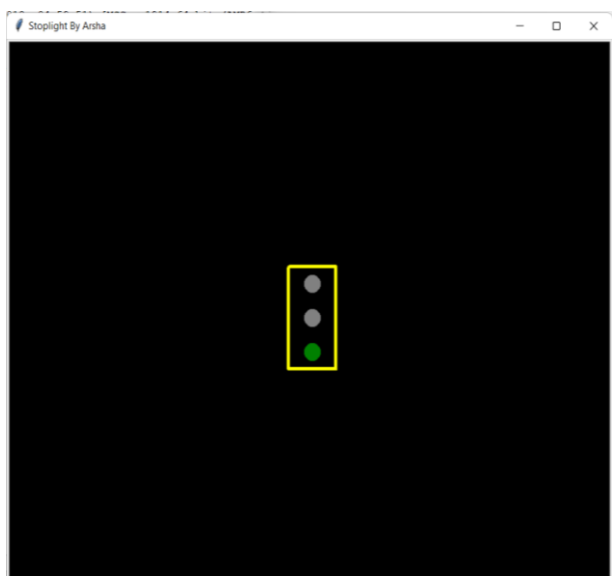
OUTPUT:



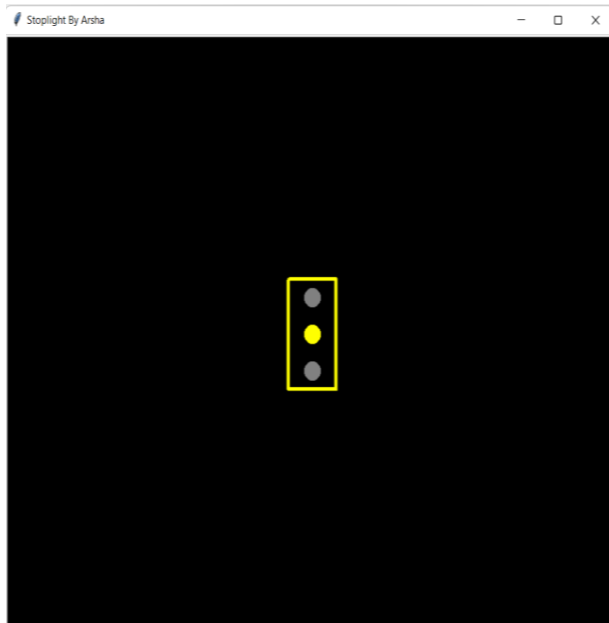
```

trafficLight.py - C:/Users/arsha/AppData/Local/Programs/Python/Python37/trafficLight.py (3.7.0)
File Edit Format Run Options Window Help
red light change("Yellow")
red light change("Yellow")
red light change("Yellow")
red light change("Yellow")
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
#Yellow
yellow Type "copyright", "credits" or "license()" for more information.
yellow >>>
yellow RESTART: C:/Users/arsha/AppData/Local/Programs/Python/Python37/trafficLight.py
yellow Red light Blinked - Now vehicle Stop behind zebra cross..
yellow Blink!!

```



Green light on- Now vehicle can go..
Blink!!



Yellow light Blinked- Now vehicle Ready to go..
Blink!!

