

Assignment - 3
Python Programming

Date	12 October 2022
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Student Roll Number	19BCS16
Maximum Marks	2 Marks

Question:

Write python code for blinking LED and Traffic Lights for Raspberry pi

#traffic light for raspberry pi simulating in pycharm with GUI

import turtle

import time

wn= turtle.getscreen()

wn.title("Stoplight By Gokul Krish")

wn.bgcolor("black")

#gui interface

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()
```

OUTPUT

