

Assignment no - 3

Assignment Date	03 October 2022
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Maximum marks	2 marks

Write python code for blinking LED and Traffic lights

Blinking LED:

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BOARD)
GPIO.setup(11,GPIO.OUT)
GPIO.output(11,1)
time.sleep(1)
GPIO.output(11,0)
time.sleep(1)
GPIO.output(11,1)
time.sleep(1)
GPIO.output(11,0)
time.sleep(1)
GPIO.cleanup()
```

Traffic light:

```
#Stoplight demo
import turtle
```

```
wn = turtle.Screen()
wn.title("Stoplight by @lead")
wn.bgcolor("black")
#Draw box around the Stoplight
pen = turtle.Turtle()
pen.color("yellow")
pen.width(3)
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)
import time
red_light.color("red")
time.sleep(4)
red_light.color("grey")
green_light.color("green")
time.sleep(3)
green_light.color("grey")
yellow_light.color("yellow")
time.sleep(2)
wn.mainloop()
```