Assignment no - 3

Assignment Date	03 October 2022
Student Name	D Pravina
Student Reg no	820419106040
Maximum marks	2 marks

Write python code for blinking LED and Traffic lights

Blinking LED:

```python
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:

```python
#Stoplight demo
import turtle
```

```python
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()
```

```python
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()
```