Assignment -3

ASSIGNMENT DATE	05 OCT 2022
STUDENT NAME	V.DIVESH
STUDENT ROLL NO	920819106016
MAXIMUM MARK	2 MARKS

Question:

1. 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**

AIM:

To Traffic light for raspberry pi simulating in python with GUI

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

```python
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_lig ht.color("grey")
green_light.color("green")
print("Green light on- Now vehicle can go..")
print("Blink!!")
time.sleep(3)
print("Blink!!")
green_lig ht.color("grey")
yellow_light.color("yellow")
print("Yellow light Blinked- Now vehicle Ready to go..")
print("Blink!!")
time.sleep(l)
print("Blink!!")
wn.mainloop()
```