

**Assignment -3**  
**Python Programming**

Assignment Date	30 September 2022
Student Name	KAVIYA N
Student Roll Number	211419106127
Maximum Marks	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**

**Code:**

#Traffic light for raspberry pi simulating in python with GUI

```
import turtle
import time
wn= turtle.getscreen()
wn.title("Stoplight By KAVIYA")
wn.bgcolor("black")
```

```
#guiinterfrace
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 Screenshot:

## OUTPUT WITH GUI INTERFACE

