

IBM Assignment -3**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

Coding:

loopy=1

```
print("Traffic Light Simulation Programme System")
```

```
while True:
```

```
    if loopy == 1:
```

```
        print("Input signal to run program :")
```

```
        print("Input red for: STOP")
```

```
        print("Input yellow for: READY TO STOP")
```

```
        print("Input green for: GO")
```

```
        print("Input stop for: END PROGRAMME")
```

```
        print("-----")
```

```
    else:
```

```
        print("Input signal to run program :")
```

```
        print("-----")
```

```
    signal=input()
```

```
    if signal == "red":
```

```
        print("Color RED")
```

```
        print("Stop behind the line")
```

```
        print("Next 60 seconds")
```

```
        print("-----")
```

```
    else:
```

```
        if signal=="yellow":
```

```
            print("Color YELLOW")
```

```
            print("Get ready to stop your vehicle")
```

```
            print("Next 60 seconds")
```

```
            print("-----")
```

```
    else:
```

```

if signal=="green":
    print("Color GREEN")
    print("You can move forward now.Drive safely.")
    print("Next 60 seconds")
    print("-----")
else:
    if signal=="stop":
        print("You choose to end this progrange.")
        print("-----")
    else:
        print("Please insert the right signals(red, yellow, green & stop) only.")
        print("-----")

loopy = 2
if not (signal is "stop"): break
print("End Simulation Programme")

```

Simulation:

```

IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help

red
Color RED
Stop behind the line
Next 60 seconds
-----
End Simulation Programme
>>>
Warning (from warnings module):
  File "C:/Users/Mr Jagan/OneDrive/Desktop/loop.py", line 42
    if not (signal is "stop"): break
SyntaxWarning: "is not" with a literal. Did you mean "!="?
>>>
===== RESTART: C:/Users/Mr Jagan/OneDrive/Desktop/loop.py =====
Traffic Light Simulation Programme System
Input signal to run program :
Input red for: STOP
Input yellow for: READY TO STOP
Input green for: GO
Input stop for: END PROGRAMME
-----
yellow
Color YELLOW
Get ready to stop your vehicle
Next 60 seconds
-----
End Simulation Programme
>>>
Warning (from warnings module):
  File "C:/Users/Mr Jagan/OneDrive/Desktop/loop.py", line 42
    if not (signal is "stop"): break
SyntaxWarning: "is not" with a literal. Did you mean "!="?
>>>
===== RESTART: C:/Users/Mr Jagan/OneDrive/Desktop/loop.py =====
Traffic Light Simulation Programme System
Input signal to run program :
Input red for: STOP
Input yellow for: READY TO STOP
Input green for: GO
Input stop for: END PROGRAMME
-----
green
Color GREEN
You can move forward now.Drive safely.
Next 60 seconds
-----
End Simulation Programme
>>>

```

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