

Assignment -3
Python Programming

Assignment Date	07 OCTOBER 2022
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Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi.

Solution:

```
x =
input("Enter
value: ")
stop_light =
int(x)
while True:
    if
stop_light
>= 1 and
stop_light <
10:

print('Green
light and
vehicle can
move
now!!!!')

stop_light
+= 1
    elif
stop_light <
20:

print('Yellow
light and
vehicle
should
wait!!!!')

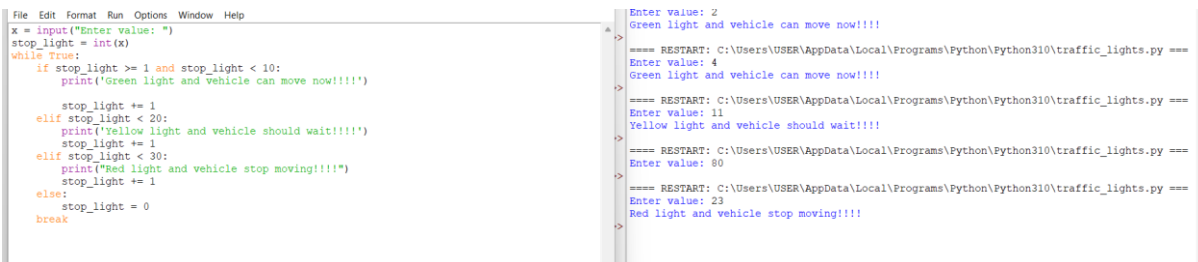
stop_light
+= 1
```

```
elif
stop_light <
30:
```

```
print("Red
light and
vehicle stop
moving!!!!")
```

```
stop_light
+= 1
else:
```

```
stop_light =
0
break
```



The screenshot shows a Python IDE with a menu bar (File, Edit, Format, Run, Options, Window, Help) and a code editor. The code is a traffic light simulation. The output window on the right shows the execution results, including user input and program output.

```
File Edit Format Run Options Window Help
x = input("Enter value: ")
stop_light = int(x)
while True:
    if stop_light >= 1 and stop_light < 10:
        print("Green light and Vehicle can move now!!!!")
        stop_light += 1
    elif stop_light < 20:
        print("Yellow light and vehicle should wait!!!!")
        stop_light += 1
    elif stop_light < 30:
        print("Red light and vehicle stop moving!!!!")
        stop_light += 1
    else:
        stop_light = 0
        break
```

Enter value: 2
Green light and vehicle can move now!!!!
==== RESTART: C:\Users\USER\AppData\Local\Programs\Python\Python310\traffic_lights.py ===
Enter value: 4
Green light and vehicle can move now!!!!
==== RESTART: C:\Users\USER\AppData\Local\Programs\Python\Python310\traffic_lights.py ===
Enter value: 11
Yellow light and vehicle should wait!!!!
==== RESTART: C:\Users\USER\AppData\Local\Programs\Python\Python310\traffic_lights.py ===
Enter value: 80
==== RESTART: C:\Users\USER\AppData\Local\Programs\Python\Python310\traffic_lights.py ===
Enter value: 23
Red light and vehicle stop moving!!!!