

Assignment -1
Python Programming

Assignment Date	18 October 2022
Student Name	N.Sowmiya
Student Roll Number	73151921051
Maximum Marks	2 Marks

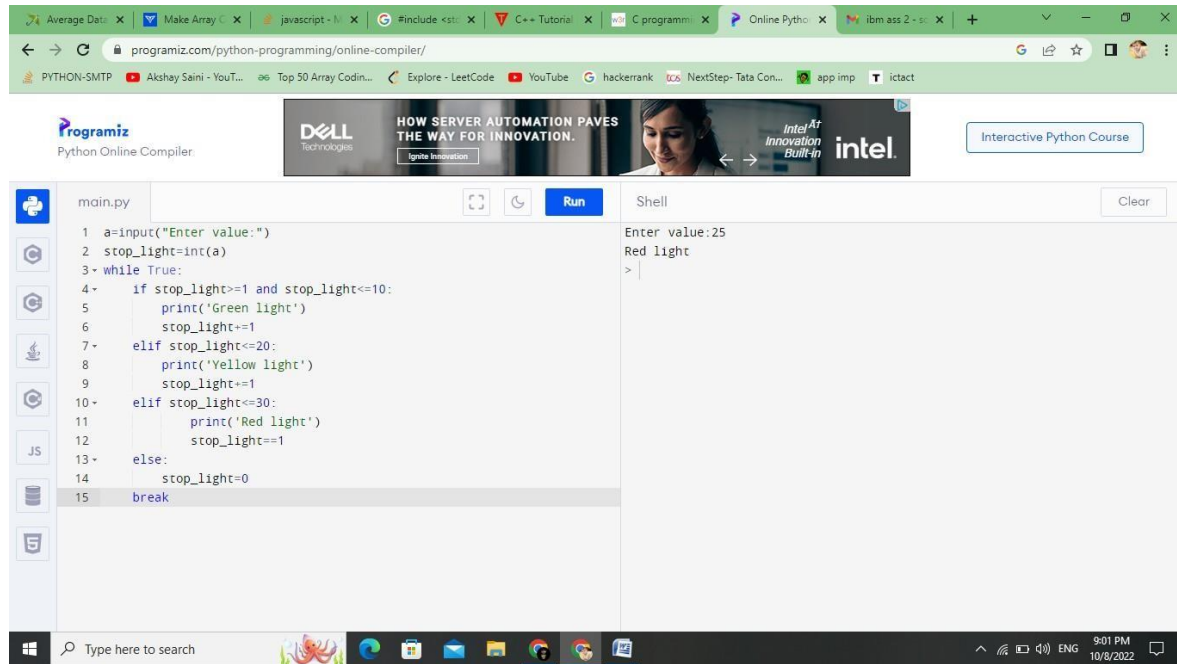
Question-1:

Write Python Code for blinking LED and traffic light for Raspberry pi(Only python code)

Solution:

```
a=input("Enter
value:")
stop_light=int(a)
while True:
    if stop_light>=1 and
        stop_light<=10:
        print('Green light')
        stop_light+=1
    elif
        stop_light<=20:
        print('Yellow
light')
        stop_light+=1
    elif
        stop_light<=3
        0: print('Red
light')
        stop_light==1
else:
    stop_ligh
=0 break
```

Output:



The screenshot shows the Programiz Python Online Compiler interface. The code editor contains the following Python code:

```
1 a=input("Enter value:")
2 stop_light=int(a)
3 while True:
4     if stop_light>=1 and stop_light<=10:
5         print('Green light')
6         stop_light+=1
7     elif stop_light<=20:
8         print('Yellow light')
9         stop_light+=1
10    elif stop_light<=30:
11        print('Red light')
12        stop_light+=1
13    else:
14        stop_light=0
15    break
```

The Shell output shows the program's execution:

```
Enter value:25
Red light
>
```

```
-----
High temperature is detetcted
Buzzzer on,alarm sound is high
High humidity is detetcted
Buzzzer on,alarm sound is high
-----
High temperature is detetcted
Buzzzer on,alarm sound is high
High humidity is detetcted
Buzzzer on,alarm sound is high
-----
High temperature is detetcted
Buzzzer on,alarm sound is high
good humidity
-----
High temperature is detetcted
Buzzzer on,alarm sound is high
High humidity is detetcted
Buzzzer on,alarm sound is high
-----
Temprature reached maximum thershold of 30 degrees celsius
High humidity is detetcted
Buzzzer on,alarm sound is high
-----
High temperature is detetcted
Buzzzer on,alarm sound is high
good humidity
-----
High temperature is detetcted
Buzzzer on,alarm sound is high
High humidity is detetcted
Buzzzer on,alarm sound is high
-----
High temperature is detetcted
Buzzzer on,alarm sound is high
-----
```

main.py

+

8

print("-----")

9

if a>40:

10

print("High temperature is detetcted")

11

print("Buzzer on,alarm sound is high")

12

elif a==40:

13

print("Temprature reached maximum thershold of 40 degrees celsius")

14

else:

15

print("Good temperature")

16

#for Humidity

17

if b>60 :

18

print("High humidity is detetcted")

19

print("Buzzer on,alarm sound is high")

20

elif a == 60:

21

print("Humidity reached maximum threshold of 60 degrees celsius")

Ln: 23, Col: 31

Run

Share

Command Line Arguments

High temperature is detetcted

Buzzer on,alarm sound is high

High humidity is detetcted

Buzzer on,alarm sound is high

>_

High temperature is detetcted

Buzzer on,alarm sound is high

High humidity is detetcted

Buzzer on,alarm sound is high