

Assignment – 3
Python Programming

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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<=30:
        print('Red light')
        stop_light==1
    else:
        stop_light=0
    break
```

output:

The screenshot displays the Programiz Python Online Compiler interface. The browser's address bar shows the URL `programiz.com/python-programming/online-compiler/`. The page header includes the Programiz logo, a Dell Technologies advertisement, and an Intel advertisement. The main workspace is divided into two sections: a code editor on the left and a shell on the right.

The code editor contains a file named `main.py` with 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 on the right shows the output of the program:

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

The Windows taskbar at the bottom shows the system clock as 9:01 PM on 10/8/2022.

```
-----  
High temperature is detetcted
```

```
Buzzer on,alarm sound is high
```

```
-----  
High temperature is detetcted  
Buzzer on,alarm sound is high
```

```
-----  
High temperature is detetcted  
Buzzer on,alarm sound is high
```

```
-----  
Temprature reached maximum thershold of 30 degrees celsius
```

```
-----  
High temperature is detetcted  
Buzzer on,alarm sound is high  
High humidity is detetcted  
Buzzer on,alarm sound is high  
-----  
High temperature is detetcted
```

```
main.py -$-  
8     print('- --- .....-')  
9     if a>46:  
  
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:  
is         print("Good temperature")  
16 #for Humidity  
17*        ie b>60 :  
18             print("High humidity is detetcted")  
19             print("Bu2zer on,alarm sound is high")  
20*        elif a == 6e:
```

Ln: 23, Col: 31



Run



Share

Command Line Arguments

```
g     High temperature is detetcted  
      Buzzer ou,aIarm sOuud is high  
      High humidity is detetcted  
      Buzzer ou,alarm sound is high
```

```
p     High temperature is detetcted  
,     Buzzer on,alarm soud is high  
      High humidity is detetcted
```