

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 panels: 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 panel shows the output of the program:

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

The Windows taskbar at the bottom indicates the system time is 9:01 PM on 10/8/2022.

```

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

```

```

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:
    print("Humidity reached maximum thershold 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

```