

### Assignment -3

#### Python programming

Assignment Date	30 September 2022
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Student Roll Number	210619106036
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<=30:
    print('Red light')
stop_light==1 else:
stop_light=0 break
```

**output:**

The screenshot displays the Programiz Python Online Compiler. The browser tabs at the top include 'Average Data', 'Make Array', 'javascript - M', '#include <st', 'C++ Tutorial', 'C program', 'Online Python', 'ibm ass 2 - s', and a plus sign for more tabs. The address bar shows the URL 'programiz.com/python-programming/online-compiler/'. The page header features the Programiz logo and the text 'Python Online Compiler'. A banner for Dell Technologies and Intel is present, with the text 'HOW SERVER AUTOMATION PAVES THE WAY FOR INNOVATION.' and 'Intel® Innovation Built-in'. The main area shows a Python script in 'main.py' with the following 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 output shell on the right shows the execution results: 'Enter value:25', 'Red light', and a blank line. The bottom of the image shows the Windows taskbar with the search bar and various application icons.

```

-----
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:

```

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

```