

Assignment -3
Python Programming

Assignment Date	18 October 2022
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Maximum Marks	2 Marks

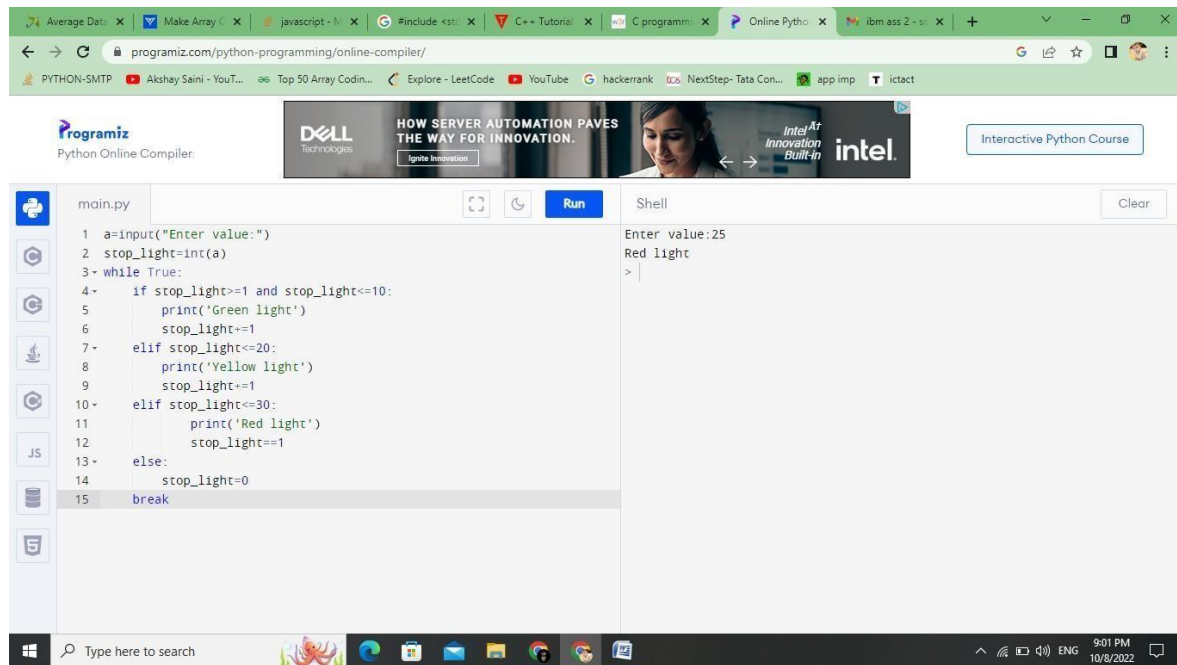
Question-1:

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
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
-----
```

```

8 | print("-----")
9 • if a>4:
10     print("High temperature is detetcted")
n     print("Buzzer on,alaum sound is high")
12 -     ez i -F a ==46:
s         p rent ( "Temp rat ure   re  ached  maxi  mum  l he r shold  o-F- 46  degrees  ceLs i us")
14 •     edse:
s         p Int ( "Good  l empenat u e")
t6     e-fo r Humidi ty
t7 •     i-l= b>68 :
:18         p rent( "High  humTdQty  1s  detetct ed")
:tg         prd nt ( "Buzzer  on,  a1arm  so und  i s  hTgh " )
20 •     edTF-a == 68 :

```



Run



Share

Command Lin e Arguments

High temperature is detetcted
 Buzzer on, alarm sound is high
 High humid:ity 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