Assignment – 3

Python Programming

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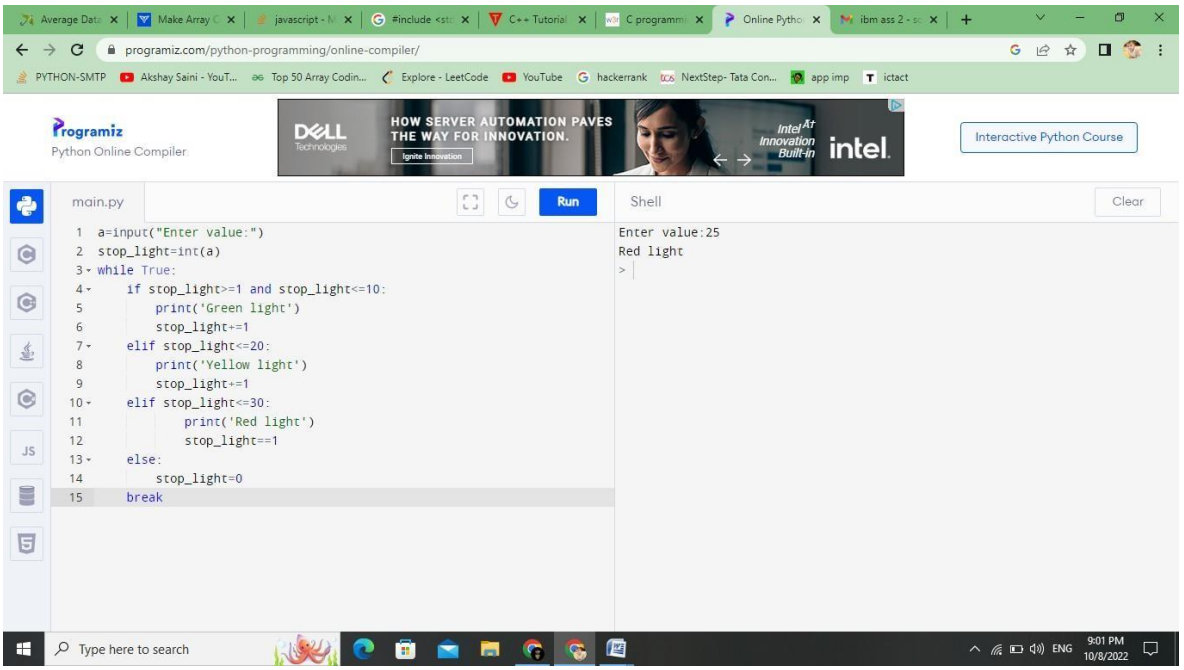
Question-1:

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:


programiz.com/python-programming/online-compiler/
Programiz
Python Online Compiler
HOW SERVER AUTOMATION PAVES THE WAY FOR INNOVATION.
Ignite Innovation
Interactive Python Course
main.py
Run
Shell
Clear
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
Enter value:25
Red light
Type here to search
ENG
9:01 PM
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
```

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
```