

Rajalakshmi Engineering College

Department of Computer Science and Engineering

IOT Assignment

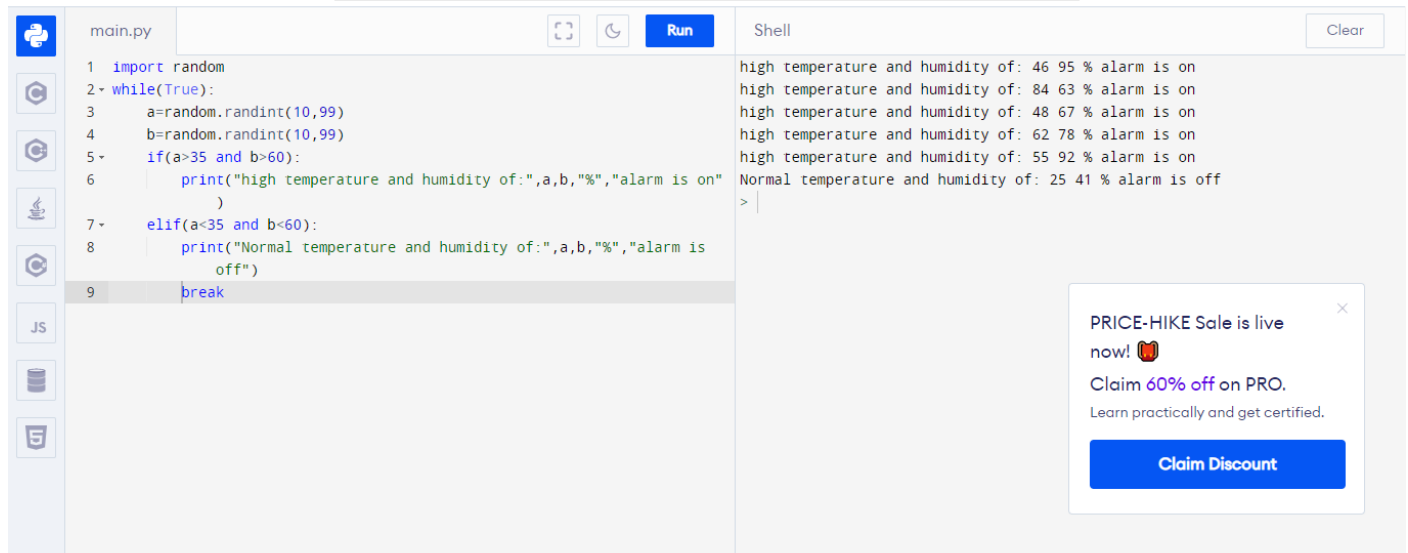
Topic: Assignment on temperature and humidity sensing and alarm automation using python

Name: Yogeswari S

Code:-

```
import random
while(True):
    a=random.randint(10,99)
    b=random.randint(10,99)
    if(a>35 and b>60):
        print("high temperature and humidity of:",a,b,"%","alarm is on")
    elif(a<35 and b<60):
        print("Normal temperature and humidity of:",a,b,"%","alarm is off")
    break
```

Output:



The screenshot shows a code editor with a file named `main.py`. The code is a Python script that generates random temperature and humidity values and checks if an alarm should be on or off. The script is as follows:

```
1 import random
2 while(True):
3     a=random.randint(10,99)
4     b=random.randint(10,99)
5     if(a>35 and b>60):
6         print("high temperature and humidity of:",a,b,"%","alarm is on"
7             )
8     elif(a<35 and b<60):
9         print("Normal temperature and humidity of:",a,b,"%","alarm is
10            off")
11         break
```

The output in the Shell window shows the results of the script's execution:

```
high temperature and humidity of: 46 95 % alarm is on
high temperature and humidity of: 84 63 % alarm is on
high temperature and humidity of: 48 67 % alarm is on
high temperature and humidity of: 62 78 % alarm is on
high temperature and humidity of: 55 92 % alarm is on
Normal temperature and humidity of: 25 41 % alarm is off
>
```

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