

## **Assignment – II**

**Topic :** PYTHON CODE TO GET TEMPERATURE AND HUMIDITY VALUE

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### **Code:**

```
import random while(True):  
temp=random.randint(10,99)  
humidity=random.randint(10,99)  
print("current temperature: ",temp)  
print("current humidity:",humidity,"%")  
temp_ref=45 humidity_ref=50 if temp >  
temp_ref and humidity < humidity_ref:  
    print("Alarm on")  
else:  
    print("Alarm off") break
```

### **OUTPUT :**

**ALARM ON**

```
1 import random
2 while(True):
3     temp=random.randint(10,99)
4     humidity=random.randint(10,99)
5     print("current temperature: ",temp)
6     print("current humidity: ",humidity,"%")
7     temp_ref=45
8     humidity_ref=50
9     if temp > temp_ref and humidity < humidity_ref:
10         print("Alarm on")
11     else:
12         print("Alarm off")
13     break
14
```

Run: main

C:\Users\vedha\PycharmProjects\Temperature\venv\bin\python.exe C:/Users/vedha/PycharmProjects/Temperature/main.py

current temperature: 65  
current humidity: 19 %  
Alarm on

Process finished with exit code 0

**ALARM OFF**

```
1 import random
2 while(True):
3     temp=random.randint(10,99)
4     humidity=random.randint(10,99)
5     print("current temperature: ",temp)
6     print("current humidity: ",humidity,"%")
7     temp_ref=45
8     humidity_ref=50
9     if temp > temp_ref and humidity < humidity_ref:
10         print("Alarm on")
11     else:
12         print("Alarm off")
13     break
14
```

Run: main

C:\Users\vedha\PycharmProjects\Temperature\venv\bin\python.exe C:/Users/vedha/PycharmProjects/Temperature/main.py

current temperature: 28  
current humidity: 66 %  
Alarm off

Process finished with exit code 0