

## ASSIGNMENT – II

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### **DOMAIN: IOT**

**Topic:** Build a Python code, assume you get Temperature and Humidity Values and write a condition to continuously Detect alarm in case of high temperature.

#### **Random Function is used**

We want the computer to pick a random number in a given range. Pick a random element from a list, pick a random card from deck, flip a coin etc., When making your password database more secure or powering a random page feature of your website.

**For install random function: pip install random**

#### **CODE:**

```
import random
while(True):
    a=random.randint(10,89)
    b=random.randint(10,89)

    if(a>25 and b>60):
        print("High Temperature :",a,"And Humidity : ", b,"% ;","Alarm is ON")
    elif(a<32 and b<60):
        print("Normal Temperature : ",a,"And Humidity :", b, "% ;","Alarm is OFF")
    break
```

```
main.py
1 import random
2 while(True):
3     a=random.randint(10,89)
4     b=random.randint(10,89)
5
6     if(a>25 and b>60):
7         print("High Temperature :",a,"And Humidity : ", b ,"% ;","Alarm is ON")
8     elif(a<32 and b<60):
9         print("Normal Temperature : ",a,"And Humidity : ", b, "% ;","Alarm is OFF")
10    break
```

OUTPUT:

```
High Temperature : 71 And Humidity : 68 % ; Alarm is ON
High Temperature : 61 And Humidity : 86 % ; Alarm is ON
High Temperature : 89 And Humidity : 80 % ; Alarm is ON
High Temperature : 59 And Humidity : 77 % ; Alarm is ON
Normal Temperature : 15 And Humidity : 11 % ; Alarm is OFF
```