

ASSIGNMENT – II

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.

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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>20 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
```

SCREENSHOT:

```
main.py
1 import random
2 while(True):
3     a=random.randint(10,89)
4     b=random.randint(10,89)
5
6     if(a>20 and b>60):
7         print("high temperature and humidity of:", a, b ,"%","alarm is on")
8     elif(a<35 and b<60):
9         print("Normal temperature and humidity of:", a, b, "%","alarm is off")
10        break
```

input

```
high temperature and humidity of: 24 69 % alarm is on
high temperature and humidity of: 79 65 % alarm is on
high temperature and humidity of: 27 77 % alarm is on
high temperature and humidity of: 83 78 % alarm is on
high temperature and humidity of: 77 84 % alarm is on
Normal temperature and humidity of: 24 59 % alarm is off
```