ASSIGNMENT – II

DOMAIN:-IOT

TOPIC:- BUILD A PYTHON CODE, ASSUME YOU GET TEMPERATURE AND HUMIDITY VALUES AND WRITE A CONDITION TO CONTINUEOUSLY 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 a 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 temprature and humidity of: ",a,b,"%","alarm is on")
  elif (a<35 and b<60):
    print("Normal temprature and humidity of: ",a,b,"%", "alarm is off")
    break
```
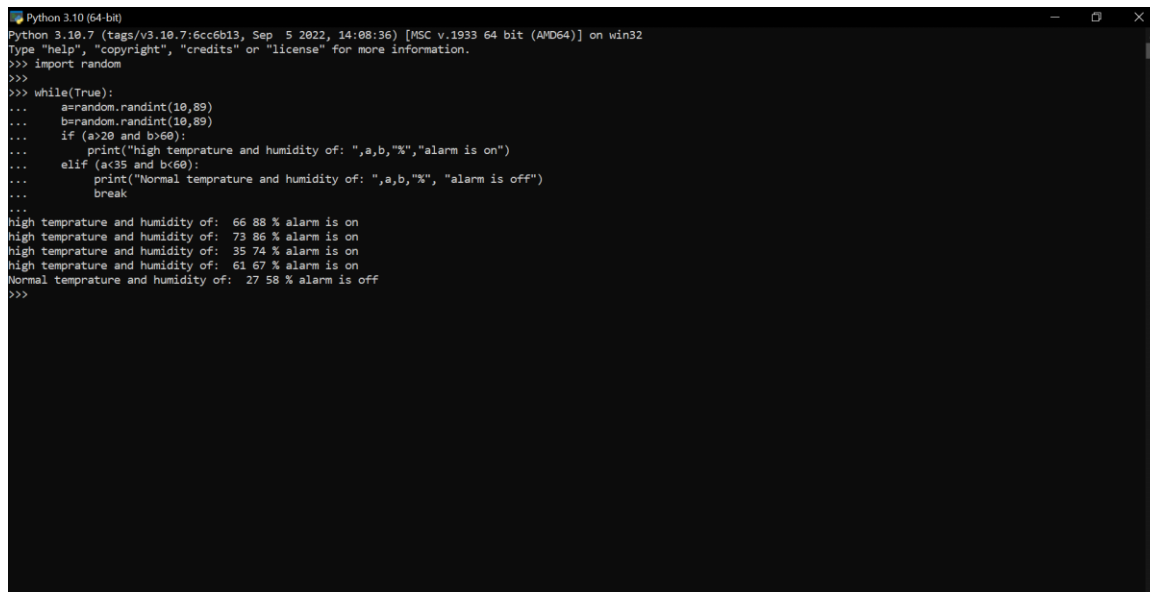
Screenshot:-


```
Python 3.10 (64-bit)

Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import random
>>>
>>> while(True):
...     a=random.randint(10,89)
...     b=random.randint(10,89)
...     if (a>20 and b>60):
...         print("high temprature and humidity of: ",a,b,"%","alarm is on")
...     elif (a<35 and b<60):
...         print("Normal temprature and humidity of: ",a,b,"%", "alarm is off")
...         break
...
high temprature and humidity of:  66 88 % alarm is on
high temprature and humidity of:  73 86 % alarm is on
high temprature and humidity of:  35 74 % alarm is on
high temprature and humidity of:  61 67 % alarm is on
Normal temprature and humidity of:  27 58 % alarm is off
>>>
```