ASSIGNMENT-2

Build a python code, assume that temperature and humidity values generated with random function to a variable and write a condition to continuously detect alarm in case of high temperature.

Program:

```
import random
while(True):
    a=random.randint(10,120)
    b=random.randint(10,120)
      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:

main.py Run Shell Clear

```
import random
while(True):
    a=random.randint(10,120)
    b=random.randint(10,120)
    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
```

```
high temperature and humidity of: 93 71 % alarm is on
 high temperature and humidity of: 102 114 % alarm is on
Normal temperature and humidity of: 26 16 % alarm is off
>
```

main.py Run Shell Clear

```
import random
while(True):
    a=random.randint(10,120)
    b=random.randint(10,120)
    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
```

```
high temperature and humidity of: 70 95 % alarm is on
high temperature and humidity of: 82 108 % alarm is on
 high temperature and humidity of: 62 91 % alarm is on
 high temperature and humidity of: 82 70 % alarm is on
Normal temperature and humidity of: 28 40 % alarm is off
>
```

main.py Run Shell Clear

```
import random
while(True):
    a=random.randint(10,120)
    b=random.randint(10,120)
    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
```

```
Normal temperature and humidity of: 32 58 % alarm is off
>
```

main.py

Run

Shell

```python
a = int(input("temperature value "))

b = int(input("humidity value "))

if a>50:

    if b>90:

        print ("alerm is ON")

    else:

        print("high temperature")

elif a == 50:

    print("temperature maximum thershold reached")



else:

    print("good temp")
```

```
temperature value 60
humidity value 100
alerm is ON
>
```