

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
1 import random
2 while(True):
3     a=random.randint(10,120)
4     b=random.randint(10,120)
5     if(a>35 and b>60):
6         print(" high temperature and humidity of:",a,b
7             ,"% alarm is on")
8     elif(a<35 and b<60):
9         print("Normal temperature and humidity of
10            :",a,b,"% alarm is off")
11         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
1 import random
2 while(True):
3     a=random.randint(10,120)
4     b=random.randint(10,120)
5     if(a>35 and b>60):
6         print(" high temperature and humidity of:",a,b
7             ,"% alarm is on")
8     elif(a<35 and b<60):
9         print("Normal temperature and humidity of
10            :",a,b,"% alarm is off")
11         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
1 import random
2 while(True):
3     a=random.randint(10,120)
4     b=random.randint(10,120)
5     if(a>35 and b>60):
6         print(" high temperature and humidity of:",a,b
7             ,"% alarm is on")
8     elif(a<35 and b<60):
9         print("Normal temperature and humidity of
10            :",a,b,"% alarm is off")
11         break
```

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