

## ASSIGNMENT-2

### MAHENDRA ENGINEERING COLLEGE FOR WOMEN

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CLASS:4<sup>th</sup> YEAR ECE

SUBJECT: IBM

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**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.**

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

|   |   |   |   |   |
|---|---|---|---|---|
|  | main.py   |  | Shell   |  |
|  | <pre>1 import random 2 while(True): 3     a=random.randint(10,120) 4     b=random.randint(10,120) 5     if(a&gt;35 and b&gt;60): 6         print(" high temperature and humidity of:",a,b 7             ,"% alarm is on") 8     elif(a&lt;35 and b&lt;60): 9         print("Normal temperature and humidity of 10             :",a,b,"% alarm is off") 11         break</pre> |  | <pre>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 &gt;  </pre> |   |



main.py



Run

```
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
            :",a,b,"% alarm is off")
10        break
```

Shell

Clear

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