

ASSIGNMENT-2

MAHENDRA ENGINEERING COLLEGE FOR WOMEN

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CLASS:IV CSE

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

```
off:",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
              ,"% alarm is on")
7     elif(a<35 and b<60):
8         print("Normal temperature and humidity of
              :",a,b,"% alarm is off")
9     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 >
              ,"% alarm is on")
7     elif(a<35 and b<60):
8         print("Normal temperature and humidity of
              :",a,b,"% alarm is off")
9     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

JS