

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
```



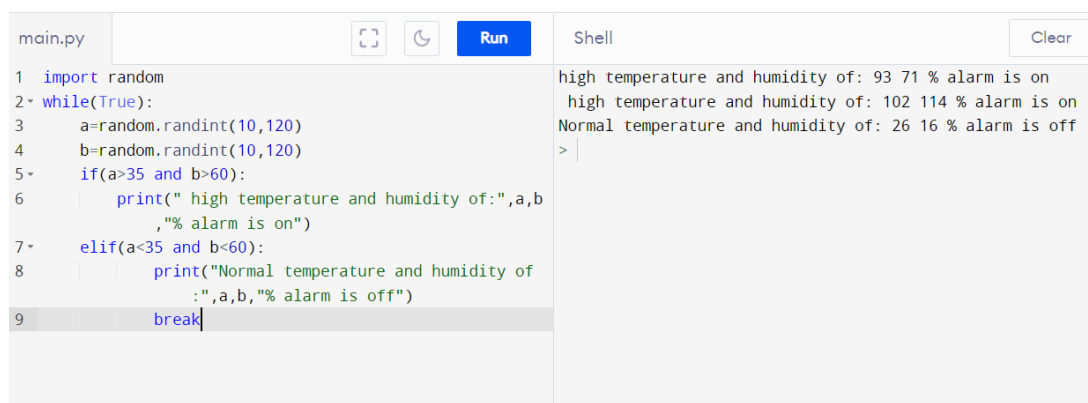
```
of:",a,b,"% alarm is on")
```

```
elif(a<35 and b<60):
```

```
    print("Normal temperature and humidity  
of:",a,b,"% alarm is off")
```

```
    break
```

OUTPUT:

















The screenshot shows a Python IDE with a file named 'main.py' and a 'Shell' window. The code in 'main.py' is as follows:

```
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
```

The 'Shell' window displays the output of the script:

```
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		Shell	
   	<pre>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</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 ></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>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</pre>		<pre>Normal temperature and humidity of: 32 58 % alarm is off ></pre>	