

**Assignment – 2**  
Python Programming

Assignment Date	7 October 2022
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Maximum Marks	2 Marks

**Question:**

Build a python code, Assume u get temperature and humidity values ( generated with random function to a variable ) and write a condition to continuously detect alarm in case of high temperature.

**Solution:** `import random import time while(True):`

```
temp=random.randint(16,40) humid=random.randint(30,99) if(temp>30):  
print("Alarm is ON due to high temperature of",temp,"degree celsius")  
time.sleep(1) elif(temp<30): print("Alarm is OFF due to Normal temperature  
of",temp,"degree celsius") time.sleep(1) if (humid<50): print("Alarm is  
OFF due to Normal humidity of",humid,"%") time.sleep(1) elif(humid>50):  
print("Alarm is ON due to High humidity of",humid,"%") time.sleep(1)
```

OUTPUT:

 \*IDLE Shell 3.9.8\*

File Edit Shell Debug Options Window Help

Python 3.9.8 (tags/v3.9.8:bb3fdcf, Nov 5 2021, 20:48:33) [MSI  
Type "help", "copyright", "credits" or "license()" for more  
>>>

```
===== RESTART: E:/Education/IBM/Assignment 2/Alarm for hi
Alarm is ON due to high temperature of 37 degree celsius
Alarm is ON due to High humidity of 73 %
Alarm is OFF due to Normal temperature of 23 degree celsius
Alarm is ON due to High humidity of 68 %
Alarm is OFF due to Normal temperature of 24 degree celsius
Alarm is OFF due to Normal humidity of 35 %
Alarm is ON due to high temperature of 33 degree celsius
Alarm is ON due to High humidity of 95 %
Alarm is ON due to high temperature of 40 degree celsius
Alarm is OFF due to Normal humidity of 33 %
Alarm is OFF due to Normal temperature of 21 degree celsius
Alarm is OFF due to Normal humidity of 39 %
Alarm is OFF due to Normal temperature of 27 degree celsius
Alarm is OFF due to Normal humidity of 31 %
Alarm is OFF due to Normal temperature of 20 degree celsius
Alarm is ON due to High humidity of 56 %
Alarm is ON due to high temperature of 35 degree celsius
Alarm is ON due to High humidity of 78 %
Alarm is OFF due to Normal temperature of 16 degree celsius
Alarm is ON due to High humidity of 86 %
Alarm is ON due to high temperature of 40 degree celsius
Alarm is ON due to High humidity of 76 %
Alarm is ON due to high temperature of 33 degree celsius
Alarm is OFF due to Normal humidity of 36 %
Alarm is OFF due to Normal temperature of 29 degree celsius
Alarm is OFF due to Normal humidity of 46 %
Alarm is OFF due to Normal temperature of 27 degree celsius
|
```