

IBM ASSIGNMENT-2

Assignment date	22 September 2022
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Maximum mark	2 marks

Question :-

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

Solution:-

```
import winsound
a = int(input("Enter temperature value :"))
b = int(input("Enter humidity value :"))
if a>=45 and b<=40:
    print("The Temperature is HIGH,",a)
    winsound.Beep(frequency=2500,duration=1000)
else:
    print("It's normal temperature")
import random
import winsound
for i in range(0,7):
    a = random.randint(20,100)
    b = random.randint(10,70)
```

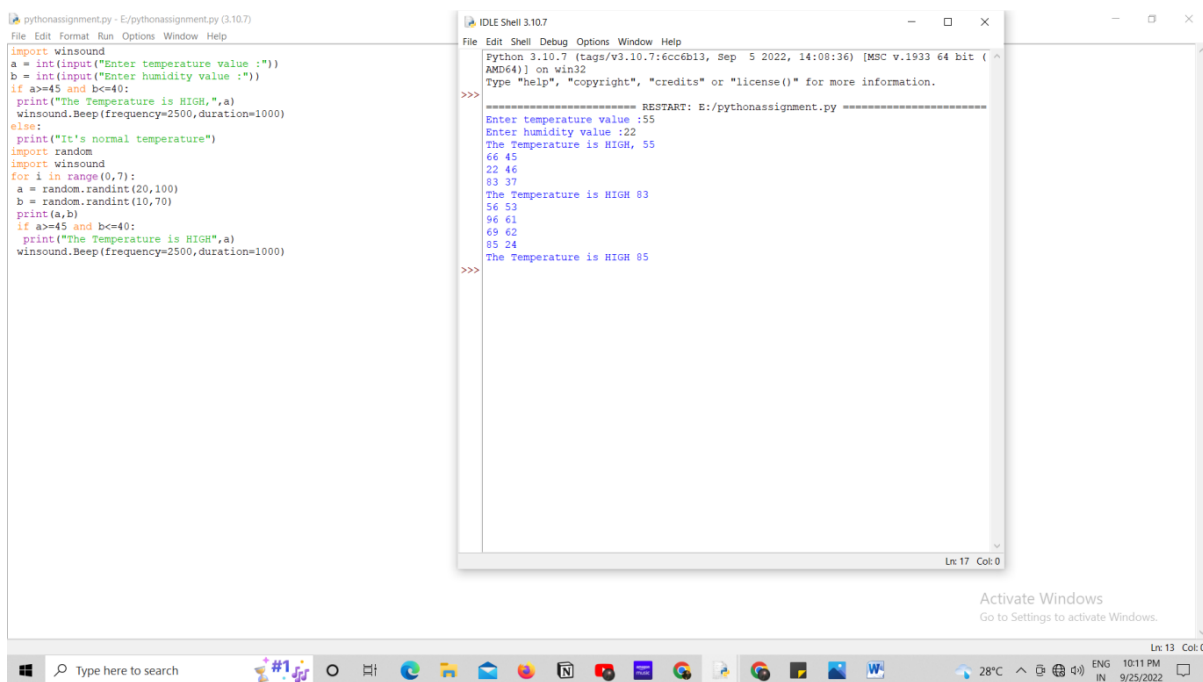
```
print(a,b)
```

```
if a>=45 and b<=40:
```

```
print("The Temperature is HIGH",a)
```

```
winsound.Beep(frequency=2500,duration=1000)
```

OUTPUT:



The screenshot displays a Python IDE with two windows. The left window, titled 'pythonassignment.py - E:/pythonassignment.py (3.10.7)', contains the following code:

```
import winsound
a = int(input("Enter temperature value :"))
b = int(input("Enter humidity value :"))
if a>=45 and b<=40:
    print("The Temperature is HIGH",a)
    winsound.Beep(frequency=2500,duration=1000)
else:
    print("It's normal temperature")
import random
import winsound
for i in range(0,7):
    a = random.randint(20,100)
    b = random.randint(10,70)
    print(a,b)
    if a>=45 and b<=40:
        print("The Temperature is HIGH",a)
        winsound.Beep(frequency=2500,duration=1000)
```

The right window, titled 'IDLE Shell 3.10.7', shows the program's execution. It prompts for temperature and humidity values, then prints the temperature status and beeps if the conditions are met. The output is as follows:

```
Python 3.10.7 [tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36] [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/pythonassignment.py =====
Enter temperature value :55
Enter humidity value :22
The Temperature is HIGH, 55
66 45
22 46
83 37
The Temperature is HIGH 83
56 53
96 61
69 62
85 24
The Temperature is HIGH 85
>>>
```

The Windows taskbar at the bottom shows the system clock as 10:11 PM on 9/25/2022, with a temperature of 28°C.