

ASSIGNMENT - 2

Python Programming

Assignment Date	08 October 2022
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Maximum Marks	2 Marks

Question-1:

Write a program to detect high temperature.

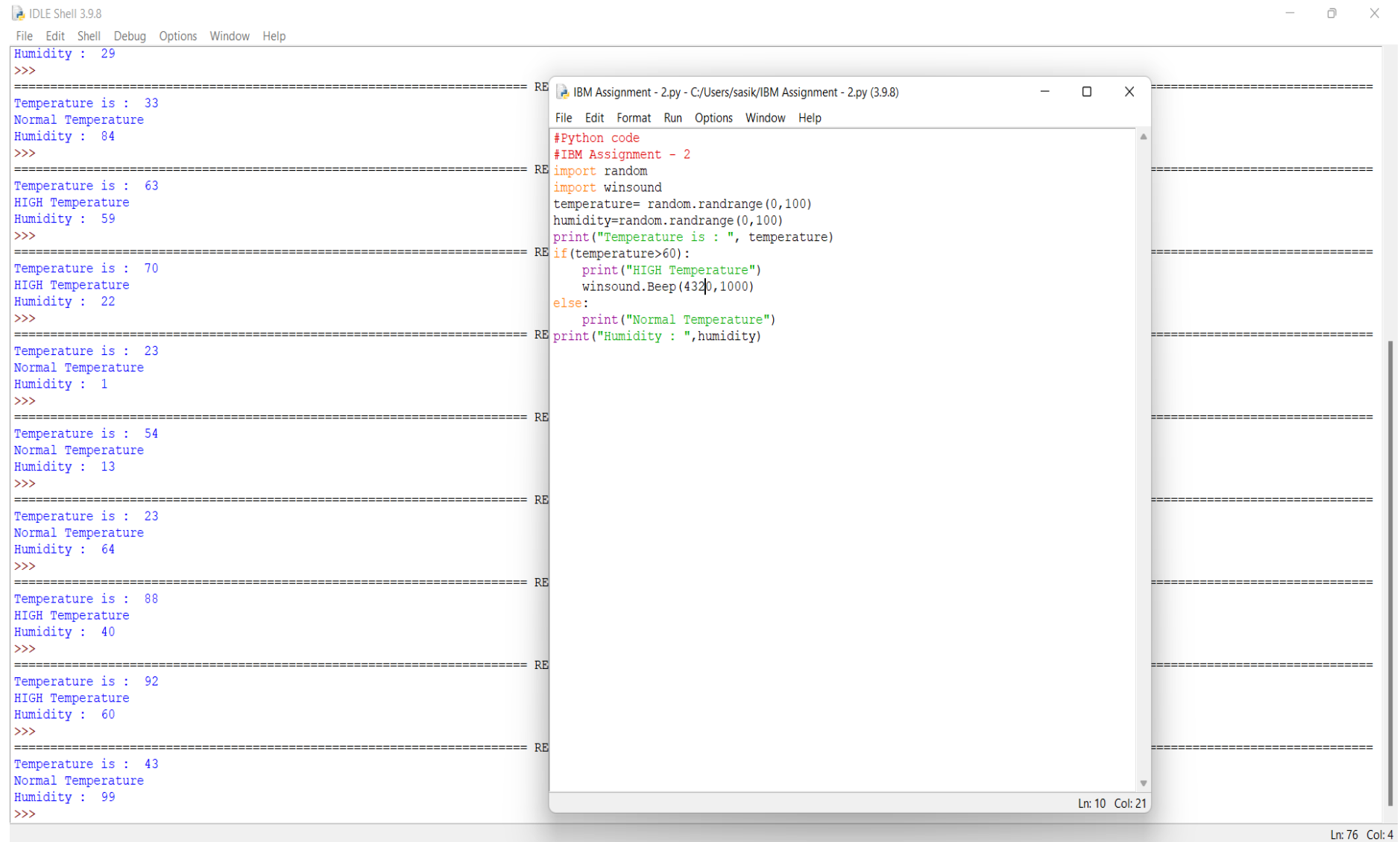
SOLUTION:

CODE:

```
import random
import winsound

temperature=random.randrange(0,100)
humidity=random.randrange(0,100)
print("Temperature is :",temperature)
if(temperature>60):
    print("High Temperature")
    winsound.Beep(4320,1000)
else:
    print("Normal Temperature")
print("Humidity : " ,humidity)
```

OUTPUT:



The screenshot displays the IDLE Shell 3.9.8 interface. The main window shows the output of a Python program, which consists of several lines of text separated by dashed lines. The output includes temperature and humidity readings, along with status messages like "Normal Temperature" and "HIGH Temperature". A secondary window titled "IBM Assignment - 2.py" is open, showing the source code of the program. The code uses the random module to generate values and the winsound module to play a beep sound based on the temperature.

```
Humidity : 29
>>>
===== RE
Temperature is : 33
Normal Temperature
Humidity : 84
>>>
===== RE
Temperature is : 63
HIGH Temperature
Humidity : 59
>>>
===== RE
Temperature is : 70
HIGH Temperature
Humidity : 22
>>>
===== RE
Temperature is : 23
Normal Temperature
Humidity : 1
>>>
===== RE
Temperature is : 54
Normal Temperature
Humidity : 13
>>>
===== RE
Temperature is : 23
Normal Temperature
Humidity : 64
>>>
===== RE
Temperature is : 88
HIGH Temperature
Humidity : 40
>>>
===== RE
Temperature is : 92
HIGH Temperature
Humidity : 60
>>>
===== RE
Temperature is : 43
Normal Temperature
Humidity : 99
>>>
```

```
#Python code
#IBM Assignment - 2
import random
import winsound
temperature= random.randrange(0,100)
humidity=random.randrange(0,100)
print("Temperature is : ", temperature)
if(temperature>60):
    print("HIGH Temperature")
    winsound.Beep(4320,1000)
else:
    print("Normal Temperature")
print("Humidity : ",humidity)
```

Ln: 10 Col: 21

Ln: 76 Col: 4