IBM ASSIGNMENT – 2

Python Programming

Assignment Date	23 September 2022
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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.

CODE:

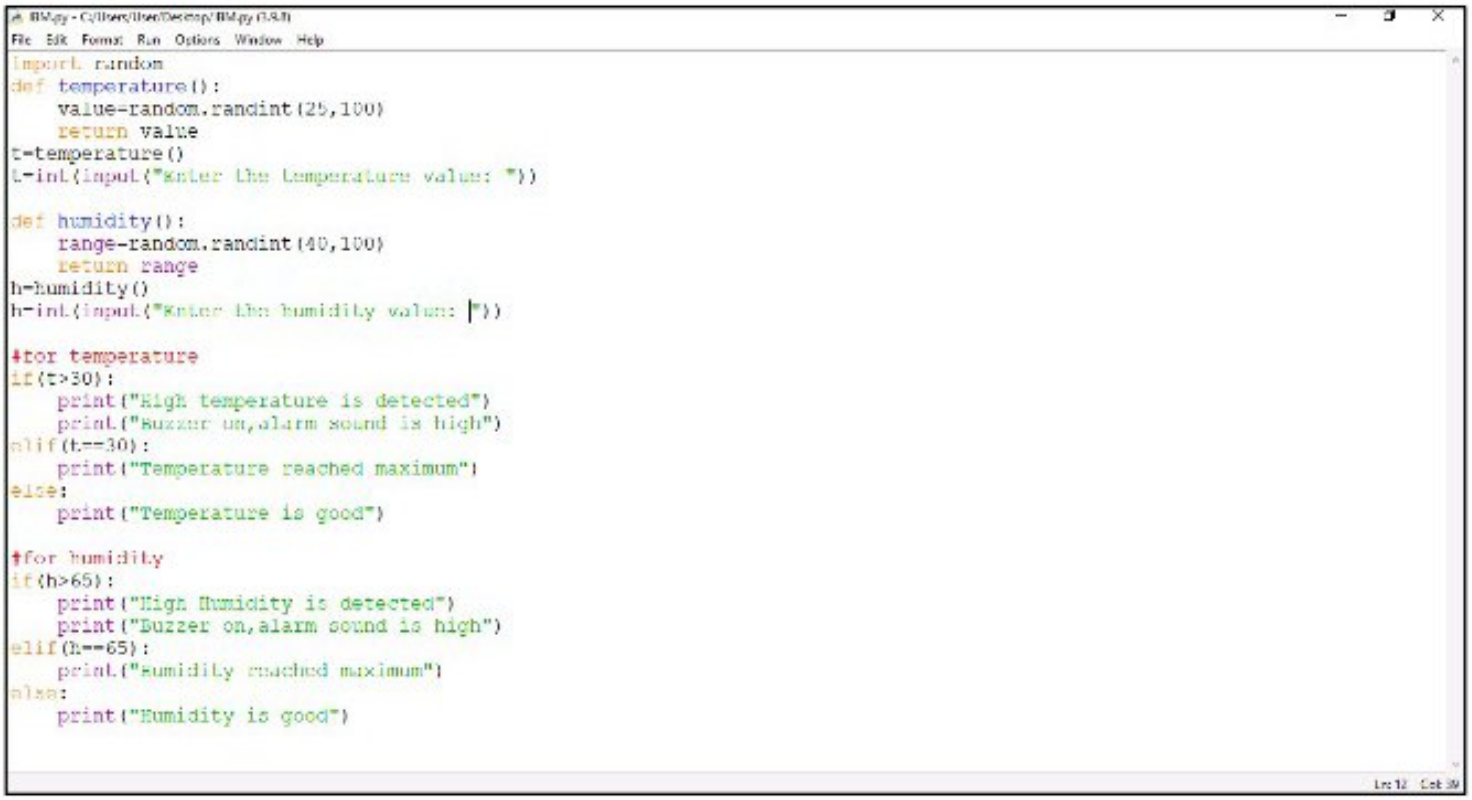
```
import random
def temperature():
    value=random.randint(25,100)
    return value
t=temperature()
t=int(input("Enter the temperature value: "))


def humidity():
    range=random.randint(40,100)
    return range
h=humidity()
h=int(input("Enter the humidity value: "))
```

```
#for temperature
if(t>30):
   print("High temperature is detected")
   print("Buzzer on,alarm sound is high")
elif(t==30):
   print("Temperature reached maximum")
else:
   print("Temperature is good")

#for humidity
if(h>65):
   print("High Humidity is detected")
   print("Buzzer on,alarm sound is high")
elif(h==65):
   print("Humidity reached maximum")
else:
   print("Humidity is good")
```

PROGRAM:



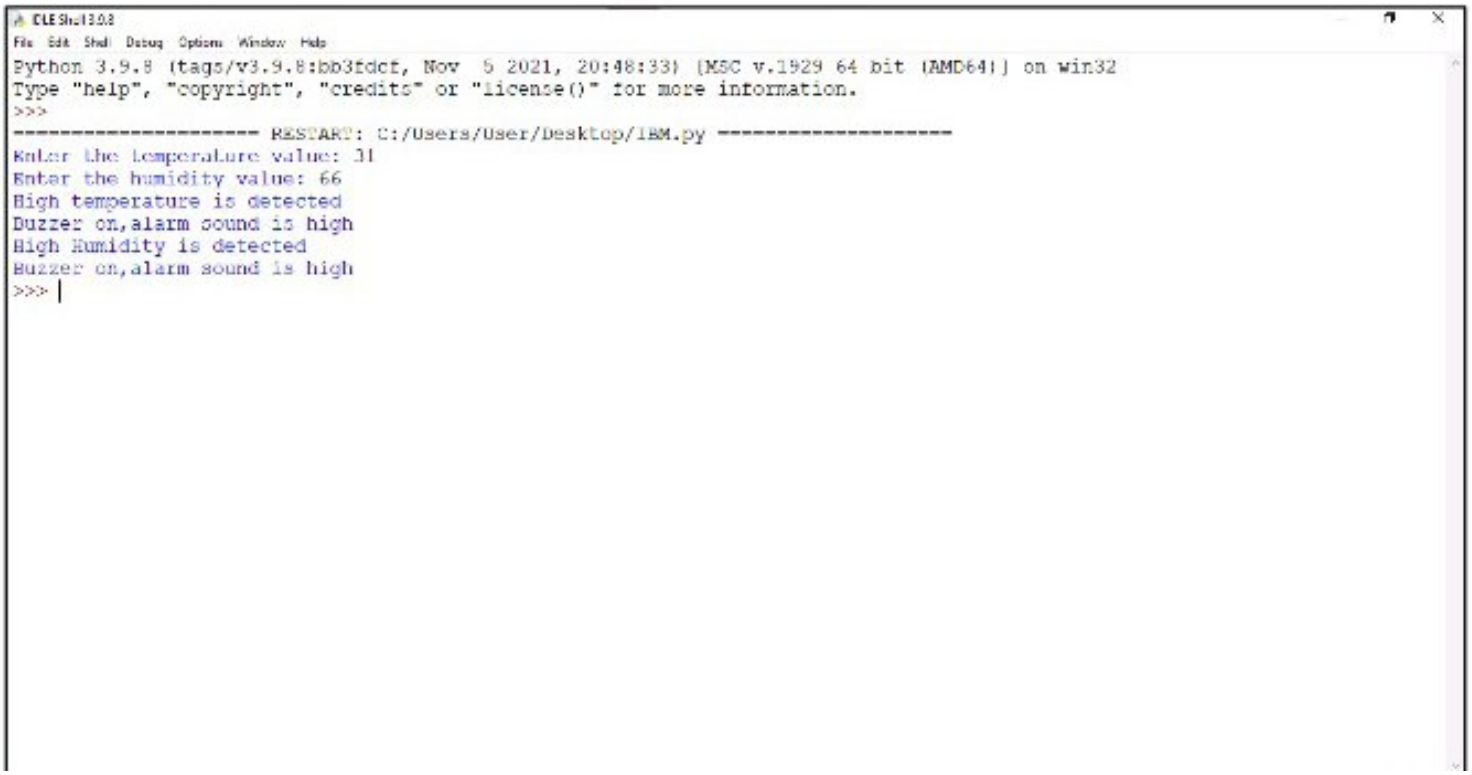
```
File Edit Format Run Options Window Help
import random
def temperature():
    value=random.randint(25,100)
    return value
t=temperature()
t=int(input("Enter the temperature value: "))

def humidity():
    range=random.randint(40,100)
    return range
h=humidity()
h=int(input("Enter the humidity value: "))

#for temperature
if(t>30):
    print("High temperature is detected")
    print("Buzzer on,alarm sound is high")
elif(t==30):
    print("Temperature reached maximum")
else:
    print("Temperature is good")

#for humidity
if(h>65):
    print("High Humidity is detected")
    print("Buzzer on,alarm sound is high")
elif(h==65):
    print("Humidity reached maximum")
else:
    print("Humidity is good")
```

OUTPUT:



```
File Edit Shell Debug Options Window Help
Python 3.9.8 (tags/v3.9.8:bb3fdcf, Nov  5 2021, 20:48:33) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Users/User/Desktop/IBM.py ==========
Enter the temperature value: 31
Enter the humidity value: 66
High temperature is detected
Buzzer on,alarm sound is high
High Humidity is detected
Buzzer on,alarm sound is high
>>>
```