

ASSIGNMENT—2

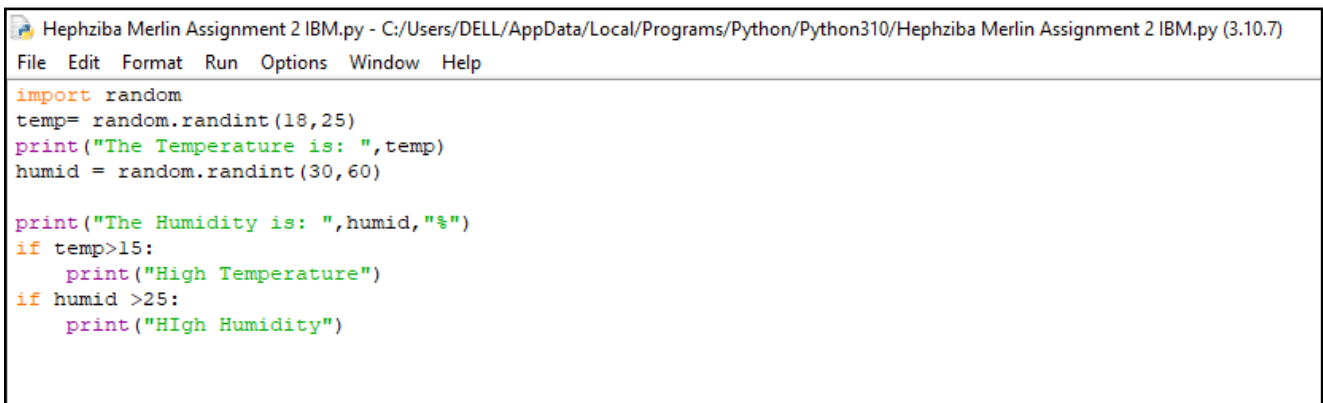
DATE	25.09.2022
NAME	HEPHZIBA MERLIN J
REGISTER NUMBER	312419106049
QUESTION	Build a python code, Assume you get temperature and humidity value (generated with random function to a variable) and write a condition to continuously detect alarm in case of High Temperature.

DETECTION CODE:

```
import random
temp=random.randint(18,25)
print("The Temperature is: ",temp)
humid = random.randint(30,60)

print("The Humidity is: ",humid,"%")
if temp>15:
    print("High Temperature")
if humid >25:
    print ("High Humidity")
```

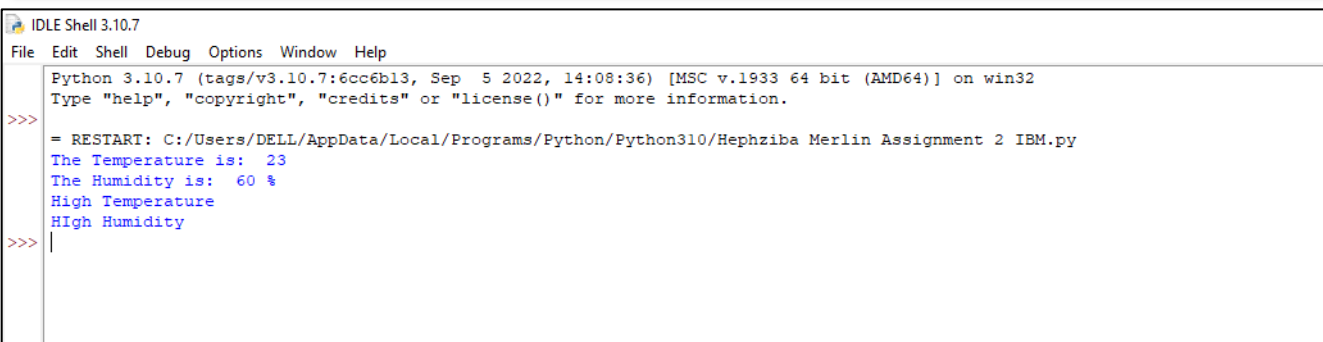
OUTPUT:



The screenshot shows a Python IDE window titled "Hephziba Merlin Assignment 2 IBM.py". The menu bar includes File, Edit, Format, Run, Options, Window, and Help. The code editor contains the following Python code:

```
import random
temp= random.randint(18,25)
print("The Temperature is: ",temp)
humid = random.randint(30,60)

print("The Humidity is: ",humid,"%")
if temp>15:
    print("High Temperature")
if humid >25:
    print ("HIgh Humidity")
```



The screenshot shows the IDLE Shell window for Python 3.10.7. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The shell displays the following output:

```
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: C:/Users/DELL/AppData/Local/Programs/Python/Python310/Hephziba Merlin Assignment 2 IBM.py
The Temperature is: 23
The Humidity is: 60 %
High Temperature
HIgh Humidity
>>> |
```

ALARM CODE:

```
import random
while (True):
    a=random.randint(10,99)
    b=random.randint(10,99)
    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:

Hephziba Merlin Assignment 2.py - C:/Users/DELL/AppData/Local/Programs/Python/Python310/Hephziba Merlin Assignment 2.py (3.10.7)

File Edit Format Run Options Window Help

```
import random
while (True):
    a=random.randint(10,99)
    b=random.randint(10,99)
    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
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

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: C:/Users/DELL/AppData/Local/Programs/Python/Python310/Hephziba Merlin Assignment 2.py
High Temperature and Humidity of 89 80 : Alarm is ON
High Temperature and Humidity of 60 88 : Alarm is ON
High Temperature and Humidity of 80 88 : Alarm is ON
High Temperature and Humidity of 98 77 : Alarm is ON
High Temperature and Humidity of 41 87 : Alarm is ON
High Temperature and Humidity of 88 78 : Alarm is ON
High Temperature and Humidity of 89 85 : Alarm is ON
High Temperature and Humidity of 37 63 : Alarm is ON
High Temperature and Humidity of 50 66 : Alarm is ON
Normal Temperature and Humidity of 13 56 : Alarm is OFF
>>>
```