

Assignment -2
Python Programming

Assignment Date	14 October 2022
Student Name	Sanjay Kumar M
Student Roll Number	19EC060
Maximum Marks	2 Marks

Question-1:

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

Solution :

#Getting Temperature

```
import random
```

```
temperature=(random.random())*100
```

```
roundedTemp=round(temperature)
```

```
print("The temperature is",roundedTemp)
```

#Checking Temperature

```
if roundedTemp>30:
```

```
    print("The temperature is high")
```

```
else:
```

```
    print("The temperature is low")
```

Temperature.py - C:/Users/ADMIN/IBM python files/Temperature.py (3.9.7)

File Edit Format Run Options Window Help

```
#Getting Temperature
import random
temperature=(random.random())*100
roundedTemp=round(temperature)
print("The temperature is",roundedTemp)
```

```
#Checking Temperature
if roundedTemp>30:
    print("The temperature is high")
else:
    print("The temperature is low")
```

IDLE Shell 3.9.7

File Edit Shell Debug Options Window Help

```
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ADMIN/IBM python files/Temperature.py =====
The temperature is 99
The temperature is high
>>>
===== RESTART: C:/Users/ADMIN/IBM python files/Temperature.py =====
The temperature is 74
The temperature is high
>>>
===== RESTART: C:/Users/ADMIN/IBM python files/Temperature.py =====
The temperature is 97
The temperature is high
>>>
===== RESTART: C:/Users/ADMIN/IBM python files/Temperature.py =====
The temperature is 99
The temperature is high
>>> |
```

Ln 19 Col: 4