

## Assignment -2

### Python Programming

Assignment Date	8 October 2022
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Student Roll Number	111519106136
Maximum Marks	2 Marks

#### Question-1:

Build a python code to detect high temperature.

#### SOLUTION:

```
import random
```

```
import winsound
```

```
temperature=random.randrange(0,100)
```

```
humidity=random.randrange(0,100)
```

```
print("temperature=",temperature)
```

```
if(temperature>60):
```

```
    print("High Temperature")
```

```
    winsound.Beep(1234,1300)
```

```
else:
```

```
    print("normal temperature")
```

```
print("humidity=" ,humidity)
```

The screenshot displays a Python IDE with two windows. The left window, titled 'IDLE Shell 3.9.1', shows the execution of the script. It prompts for help, then restarts the script three times. The first run shows a temperature of 65, which is classified as 'HIGH TEMPERATURE'. The second run shows a temperature of 19, classified as 'NORMAL TEMPERATURE'. The third run shows a temperature of 62, classified as 'HIGH TEMPERATURE'. The right window, titled 'assignment 2.py - C:/Users/SAKTHIVEL S/AppData/Local/Programs/Python/Python39/assignment 2.py (3.9.1)', shows the source code of the script. The code imports 'random' and 'winsound', generates random temperature and humidity values, and uses an if-else statement to print the temperature status and trigger a beep sound if the temperature is above 60.

```
File Edit Shell Debug Options Window Help
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win
32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/SAKTHIVEL S/AppData/Local/Programs/Python/Python39/assignment 2.py
TEMPERATURE= 65
HIGH TEMPERATURE
>>>
= RESTART: C:/Users/SAKTHIVEL S/AppData/Local/Programs/Python/Python39/assignment 2.py
TEMPERATURE= 19
NORMAL TEMPERATURE
>>>
= RESTART: C:/Users/SAKTHIVEL S/AppData/Local/Programs/Python/Python39/assignment 2.py
TEMPERATURE= 62
HIGH TEMPERATURE
>>>
```

```
File Edit Format Run Options Window Help
assignment 2.py - C:/Users/SAKTHIVEL S/AppData/Local/Programs/Python/Python39/assignment 2.py (3.9.1)
import random
import winsound
temperature=random.randrange(0,100)
humidity=random.randrange(0,100)
print("TEMPERATURE=",temperature)
if(temperature>60):
    print("HIGH TEMPERATURE")
    winsound.Beep(1234,1300)
else:
    print("NORMAL TEMPERATURE")
|
```