

**Assignment -2**  
Python Programming

Assignment Date	21 September 2022
Student Name	B Abhinav
Student Roll Number	19D003
Maximum Marks	2 Marks

**Question-1:**

Build a python code, Assume you 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.

Solution:

```
# -*- coding: utf-8 -*-
```

```
"""
```

Created on Sun Sep 25 21:40:25 2022

```
@author: ABHINAV
```

```
"""
```

```
import time
```

```
import random
```

```
from playsound import playsound
```

```
import winsound
```

```
i=0
```

```
print("\n\tPress ctrl+C to STOP\n")
```

```
time.sleep(3)
```

```
try:
```

```
    while True:
```

```
        temp=random.randint(70,110)
```

```
        humid=random.randint(50,80)
```

```
        print(f"temp: {temp}°F | humid: {humid}% | ",end="")
```

```
        if temp>=84:
```

```
        print("HIGH Temperature")

        playsound('C:\\Users\\ABHINAV\\Python Projects\\IBM Nalaiya Thiran\\beep.mp3')

    elif temp<75:

        print("LOW Temperature")

    elif humid<60:

        print("LOW HUMID")

    elif humid>70:

        print("HIGH HUMID")

    time.sleep(1)

    print("\n")

except KeyboardInterrupt:

    pass
```

Output:

```
    Press ctrl+C to STOP

temp: 107°F | humid: 76% | HIGH Temperature(Beep)

temp: 74°F | humid: 56% | LOW Temperature

temp: 99°F | humid: 75% | HIGH Temperature(Beep)

temp: 108°F | humid: 65% | HIGH Temperature(Beep)

temp: 76°F | humid: 75% | HIGH HUMID

temp: 90°F | humid: 64% | HIGH Temperature(Beep)

temp: 80°F | humid: 57% | LOW HUMID
```