

## Assignment -2

### Python Code

Assignment Date	25 September 2022
Student Name	Mr. Gunaseelan
Student Roll Number	910819104002
Maximum Marks	2 Marks

#### Question-1:

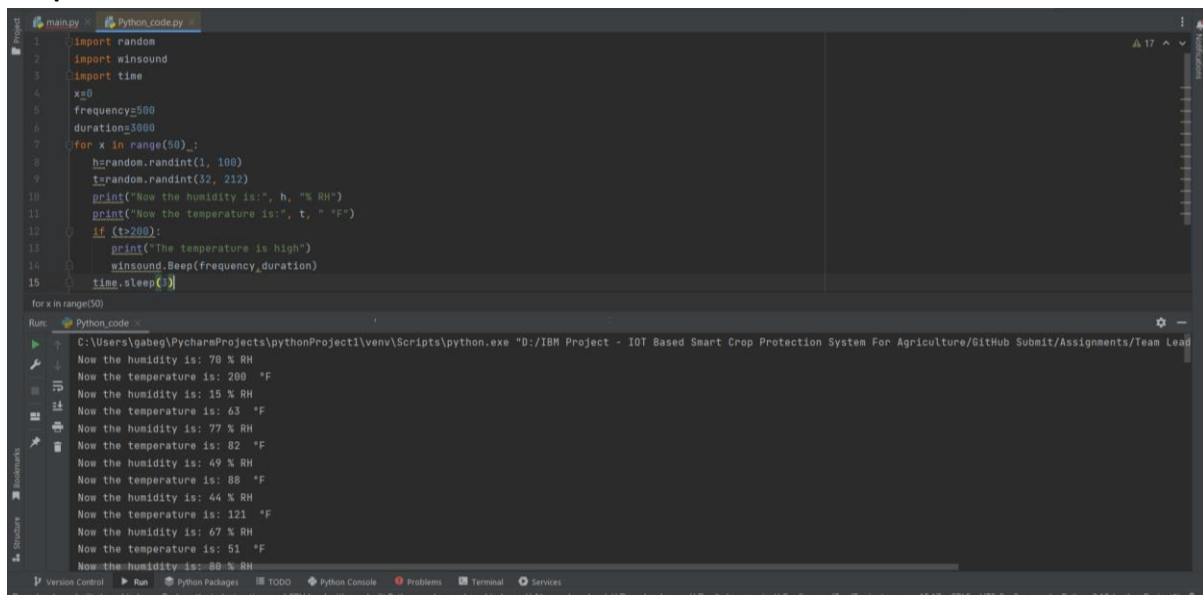
Build a python code, Assume u get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

#### Solution:

##### Code:

```
import random
import winsound
import time
x=0
frequency=500
duration=3000
for x in range(50) :
    h=random.randint(1, 100)
    t=random.randint(32, 212)
    print("Now the humidity is:", h, "% RH")
    print("Now the temperature is:", t, " °F")
    if (t>200):
        print("The temperature is high")
        winsound.Beep(frequency,duration)
    time.sleep(3)
```

## Output:



The screenshot displays the PyCharm IDE interface. The top pane shows the source code for `Python_code.py`, which generates random humidity and temperature values and plays a beep sound. The bottom pane shows the output of the program, listing 10 pairs of values.

```
1 import random
2 import winsound
3 import time
4 x=0
5 frequency=500
6 duration=500
7 for x in range(50):
8     h=random.randint(1, 100)
9     t=random.randint(32, 212)
10    print("Now the humidity is:", h, "% RH")
11    print("Now the temperature is:", t, " °F")
12    if (t>200):
13        print("The temperature is high")
14        winsound.Beep(frequency,duration)
15    time.sleep(1)
16 for x in range(50)
```

Run: Python\_code.py

C:\Users\gabeg\PycharmProjects\pythonProject1\venv\Scripts\python.exe "D:/IBM Project - IOT Based Smart Crop Protection System For Agriculture/GitHub Submit/Assignments/Team Lead

Now the humidity is: 70 % RH  
Now the temperature is: 200 °F  
Now the humidity is: 15 % RH  
Now the temperature is: 63 °F  
Now the humidity is: 77 % RH  
Now the temperature is: 82 °F  
Now the humidity is: 49 % RH  
Now the temperature is: 88 °F  
Now the humidity is: 44 % RH  
Now the temperature is: 121 °F  
Now the humidity is: 67 % RH  
Now the temperature is: 51 °F  
Now the humidity is: 80 % RH