

## ASSIGNMENT 2

### CODE:

```
import random

import time

import winsound

while(1):

    temp = random.randint(0,100)

    humidity = random.randint(0,100)

    if temp>50:

        print("ALERT!! Detected temperature: "+str(temp)+"c")

        duration=5000

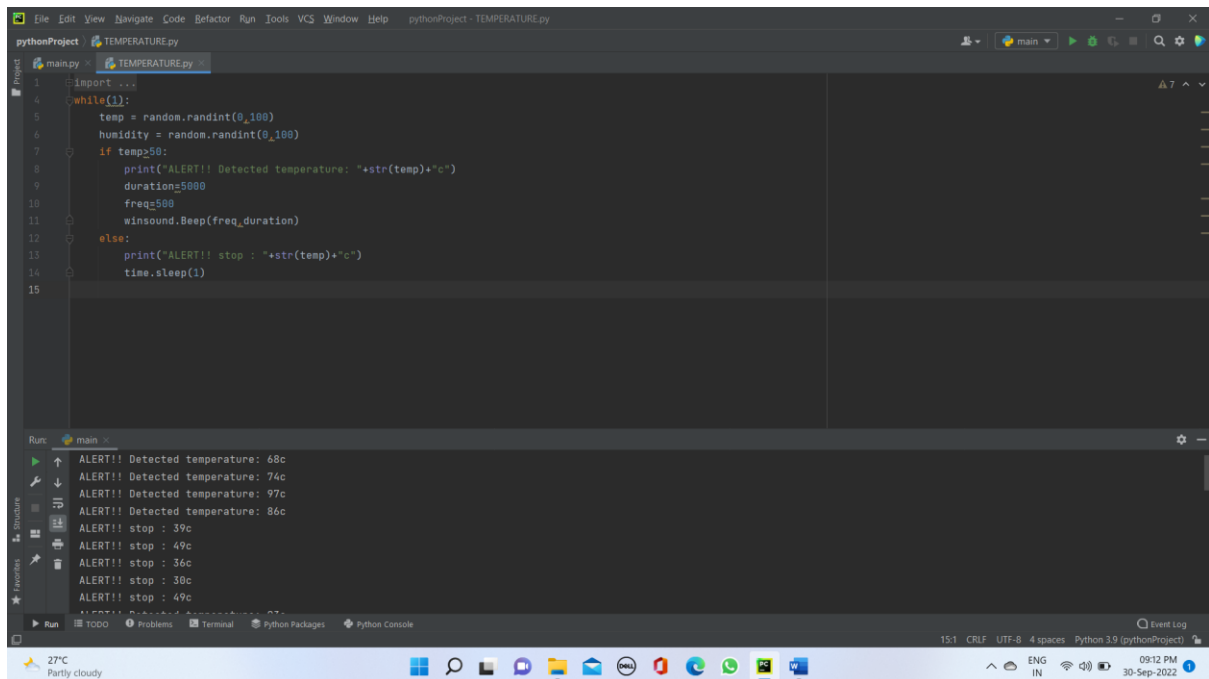
        freq=500

        winsound.Beep(freq,duration)

    else:

        print("ALERT!! stop : "+str(temp)+"c")

        time.sleep(1)
```



The screenshot shows a Python IDE with a file named `TEMPERATURE.py` open. The code in the file is as follows:

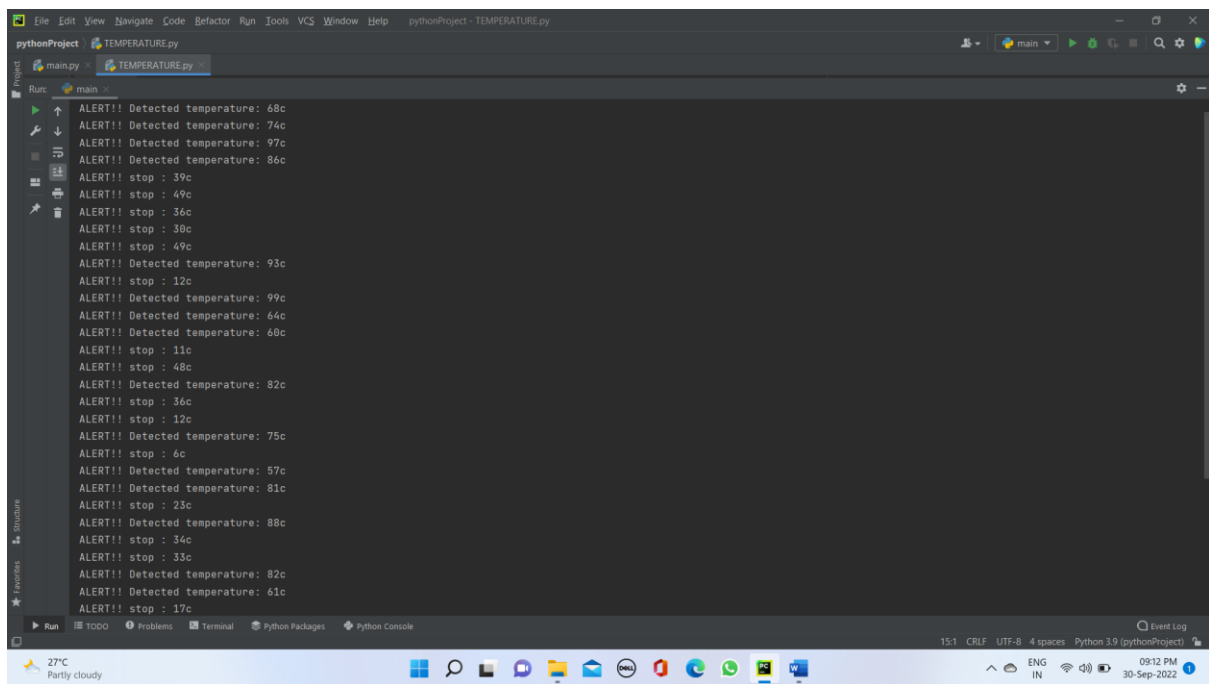
```
1 import random
2
3 import time
4
5 import winsound
6
7 while(1):
8     temp = random.randint(0,100)
9     humidity = random.randint(0,100)
10
11     if temp>50:
12         print("ALERT!! Detected temperature: "+str(temp)+"c")
13         duration=5000
14         freq=500
15         winsound.Beep(freq,duration)
16
17     else:
18         print("ALERT!! stop : "+str(temp)+"c")
19         time.sleep(1)
```

The Run console at the bottom shows the output of the program:

```
ALERT!! Detected temperature: 68c
ALERT!! Detected temperature: 74c
ALERT!! Detected temperature: 97c
ALERT!! Detected temperature: 86c
ALERT!! stop : 39c
ALERT!! stop : 49c
ALERT!! stop : 36c
ALERT!! stop : 30c
ALERT!! stop : 49c
```

The status bar at the bottom indicates the system is at 27°C, partly cloudy, and the time is 09:12 PM on 30-Sep-2022.

## OUTPUT:



```
pythonProject - TEMPERATURE.py
main.py
TEMPERATURE.py

ALERT!! Detected temperature: 68c
ALERT!! Detected temperature: 74c
ALERT!! Detected temperature: 97c
ALERT!! Detected temperature: 86c
ALERT!! stop : 39c
ALERT!! stop : 49c
ALERT!! stop : 36c
ALERT!! stop : 30c
ALERT!! stop : 49c
ALERT!! Detected temperature: 93c
ALERT!! stop : 12c
ALERT!! Detected temperature: 99c
ALERT!! Detected temperature: 64c
ALERT!! Detected temperature: 68c
ALERT!! stop : 11c
ALERT!! stop : 48c
ALERT!! Detected temperature: 82c
ALERT!! stop : 36c
ALERT!! stop : 12c
ALERT!! Detected temperature: 75c
ALERT!! stop : 6c
ALERT!! Detected temperature: 57c
ALERT!! Detected temperature: 81c
ALERT!! stop : 23c
ALERT!! Detected temperature: 88c
ALERT!! stop : 34c
ALERT!! stop : 33c
ALERT!! Detected temperature: 82c
ALERT!! Detected temperature: 61c
ALERT!! stop : 17c
```