

## 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

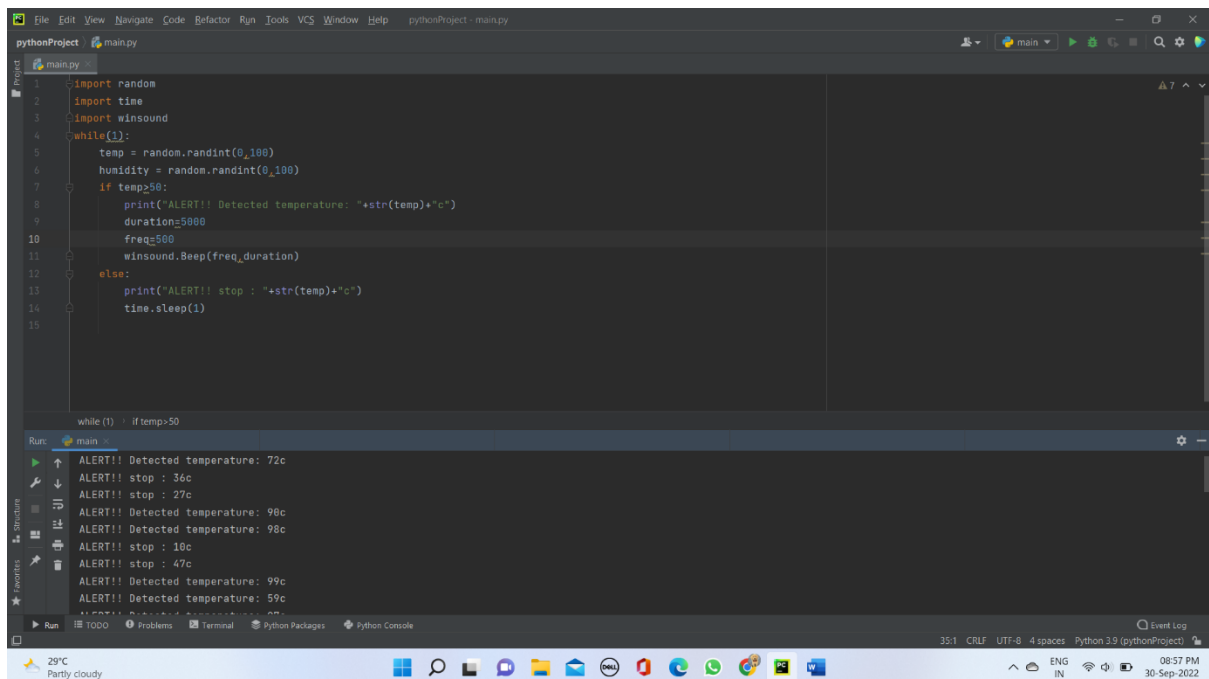
        freq=500

        winsound.Beep(freq,duration)

    else:

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

        time.sleep(1)
```



The screenshot shows a Python IDE with a dark theme. The editor window displays the code from the previous block. Below the editor, the 'Run' console shows the output of the program. The output consists of several lines of text, each preceded by an upward arrow icon, indicating the sequence of alerts generated by the program. The alerts alternate between detecting a high temperature and reporting a stop when the temperature is below 50 degrees Celsius.

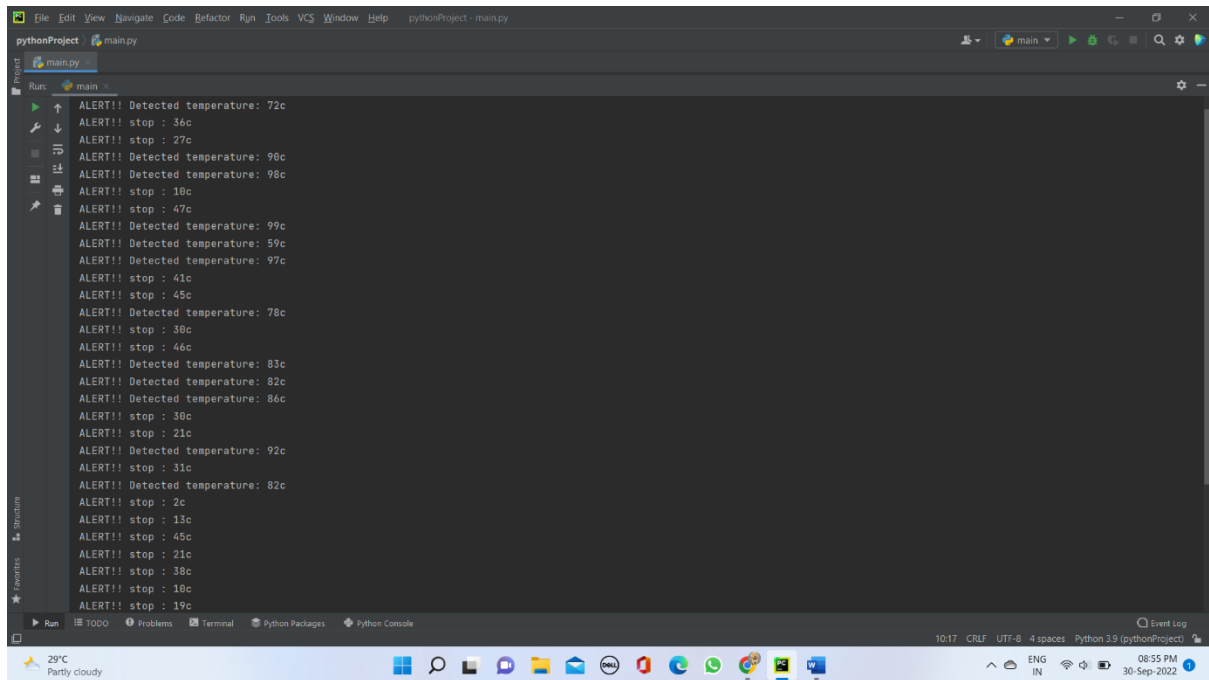
```
pythonProject main.py
1 import random
2 import time
3 import winsound
4 while(1):
5     temp = random.randint(0,100)
6     humidity = random.randint(0,100)
7     if temp>50:
8         print("ALERT!! Detected temperature: "+str(temp)+"c")
9         duration=5000
10        freq=500
11        winsound.Beep(freq,duration)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

Run console output:

```
ALERT!! Detected temperature: 72c
ALERT!! stop : 36c
ALERT!! stop : 27c
ALERT!! Detected temperature: 98c
ALERT!! Detected temperature: 98c
ALERT!! stop : 10c
ALERT!! stop : 47c
ALERT!! Detected temperature: 99c
ALERT!! Detected temperature: 59c
```

Taskbar at the bottom shows the system clock as 08:57 PM on 30-Sep-2022, and the weather as 29°C Partly cloudy.

## OUTPUT:



```
pythonProject - main.py
main.py
Run: main
ALERT!! Detected temperature: 72c
ALERT!! stop : 36c
ALERT!! stop : 27c
ALERT!! Detected temperature: 98c
ALERT!! Detected temperature: 98c
ALERT!! stop : 18c
ALERT!! stop : 47c
ALERT!! Detected temperature: 99c
ALERT!! Detected temperature: 59c
ALERT!! Detected temperature: 97c
ALERT!! stop : 41c
ALERT!! stop : 45c
ALERT!! Detected temperature: 78c
ALERT!! stop : 30c
ALERT!! stop : 46c
ALERT!! Detected temperature: 83c
ALERT!! Detected temperature: 82c
ALERT!! Detected temperature: 86c
ALERT!! stop : 30c
ALERT!! stop : 21c
ALERT!! Detected temperature: 92c
ALERT!! stop : 31c
ALERT!! Detected temperature: 82c
ALERT!! stop : 2c
ALERT!! stop : 13c
ALERT!! stop : 45c
ALERT!! stop : 21c
ALERT!! stop : 38c
ALERT!! stop : 10c
ALERT!! stop : 19c
```

23°C  
Partly cloudy

10:17 CRF UTF-8 4 spaces Python 3.9 (pythonProject)

ENG IN 00:55 PM 30-Sep-2022