

PYTHON CODE – TEMPERATURE AND HUMIDITY VALUES:

```
import random

while(True):

    temp_ran =random.randint(10,99)

    humid_ran =random.randint(10,99)

    print("current temperature:",temp)

    print("current humidity:",humid,"%")

    temp_ref=42

    humid_ref=40

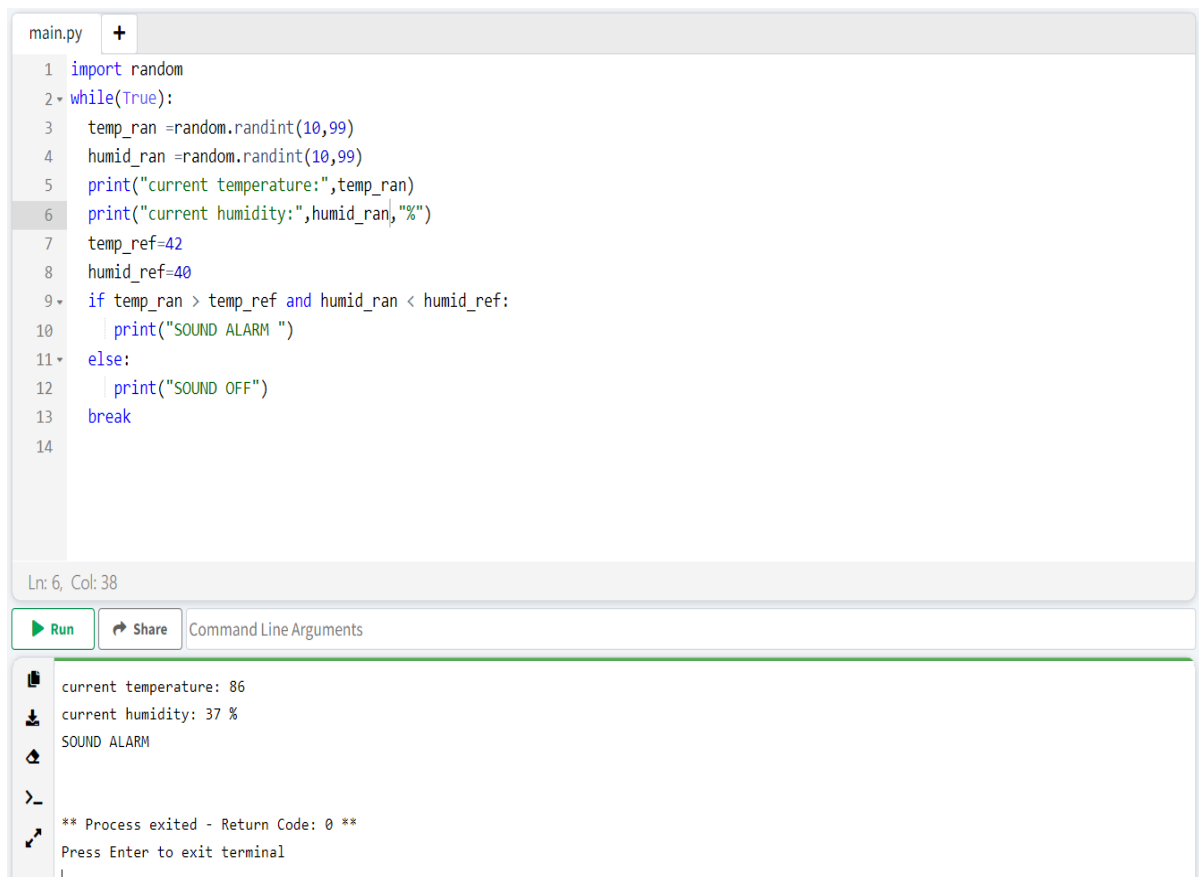
    if temp_ran > temp_ref and humid_ran < humid_ref:

        print("SOUND ALARM ")

    else:

        print("SOUND OFF")

    break
```



The screenshot shows a Python IDE with a file named 'main.py'. The code is as follows:

```
1 import random
2 while(True):
3     temp_ran =random.randint(10,99)
4     humid_ran =random.randint(10,99)
5     print("current temperature:",temp_ran)
6     print("current humidity:",humid_ran,"%")
7     temp_ref=42
8     humid_ref=40
9     if temp_ran > temp_ref and humid_ran < humid_ref:
10         print("SOUND ALARM ")
11     else:
12         print("SOUND OFF")
13     break
14
```

The IDE shows the current cursor position at Line 6, Column 38. Below the code editor, there are buttons for 'Run' and 'Share', and a field for 'Command Line Arguments'.

The output of the program is displayed in the terminal window:

```
current temperature: 86
current humidity: 37 %
SOUND ALARM
** Process exited - Return Code: 0 **
Press Enter to exit terminal
```