

#Set the threshold values for temperature and humidity

TEMP\_THRESHOLD = 85 # degrees Celsius

HUMIDITY\_THRESHOLD = 45 # percent

Generate a random temperature value between 0 and 100 degrees Celsius

temperature = random(0, 100) print("Temperature:", temperature)

Generate a random humidity value between 0 and 100 percent

humidity = random(0, 100) print("Humidity:", humidity)

Check if either temperature or humidity is above the threshold

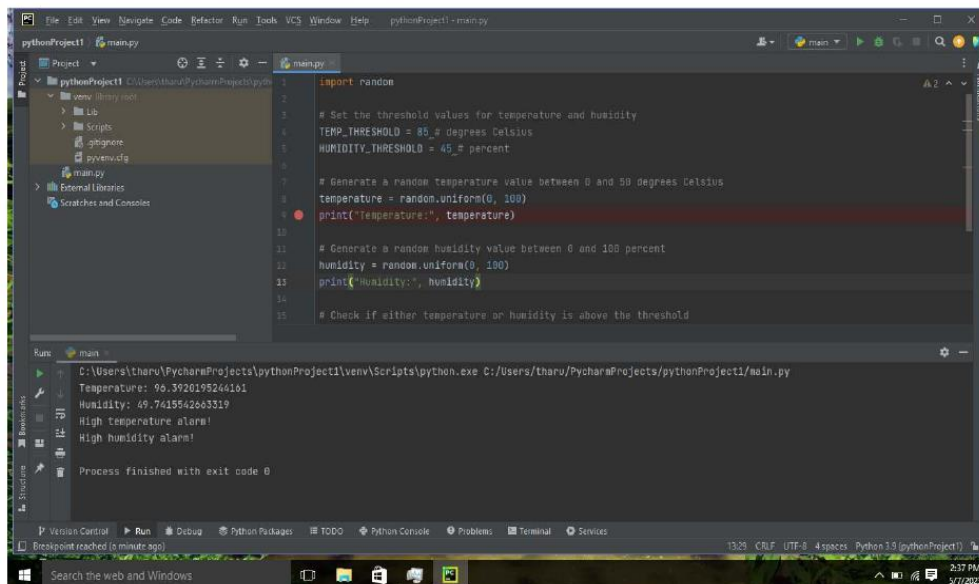
if temperature > TEMP\_THRESHOLD:

    print("High temperature alarm!")

if humidity > HUMIDITY\_THRESHOLD:

    print("High humidity alarm!")

OUTPUT:

A screenshot of a Python IDE window titled 'pythonProject1 - main.py'. The code editor shows a script that sets thresholds for temperature and humidity, generates random values, and prints them. The output console at the bottom shows the execution results: 'Temperature: 96.3920195244101', 'Humidity: 49.7415542603319', 'High temperature alarm!', and 'High humidity alarm!'. The process finished with exit code 0. The IDE interface includes a sidebar with project files, a top menu bar, and a bottom status bar.

```
pythonProject1 - main.py
File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject1 C:\Users\tharu\PycharmProjects\pythonProject1
venv library root
Lib
Scripts
pygments
pyvenv.cfg
main.py
General Libraries
Scratches and Console
Run main
C:\Users\tharu\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:\Users\tharu\PycharmProjects\pythonProject1/main.py
Temperature: 96.3920195244101
Humidity: 49.7415542603319
High temperature alarm!
High humidity alarm!
Process finished with exit code 0
13:29 CRLF UTF-8 4 spaces Python 3.8 (pythonProject1)
Search the web and Windows 2:37 PM 5/7/2023
```