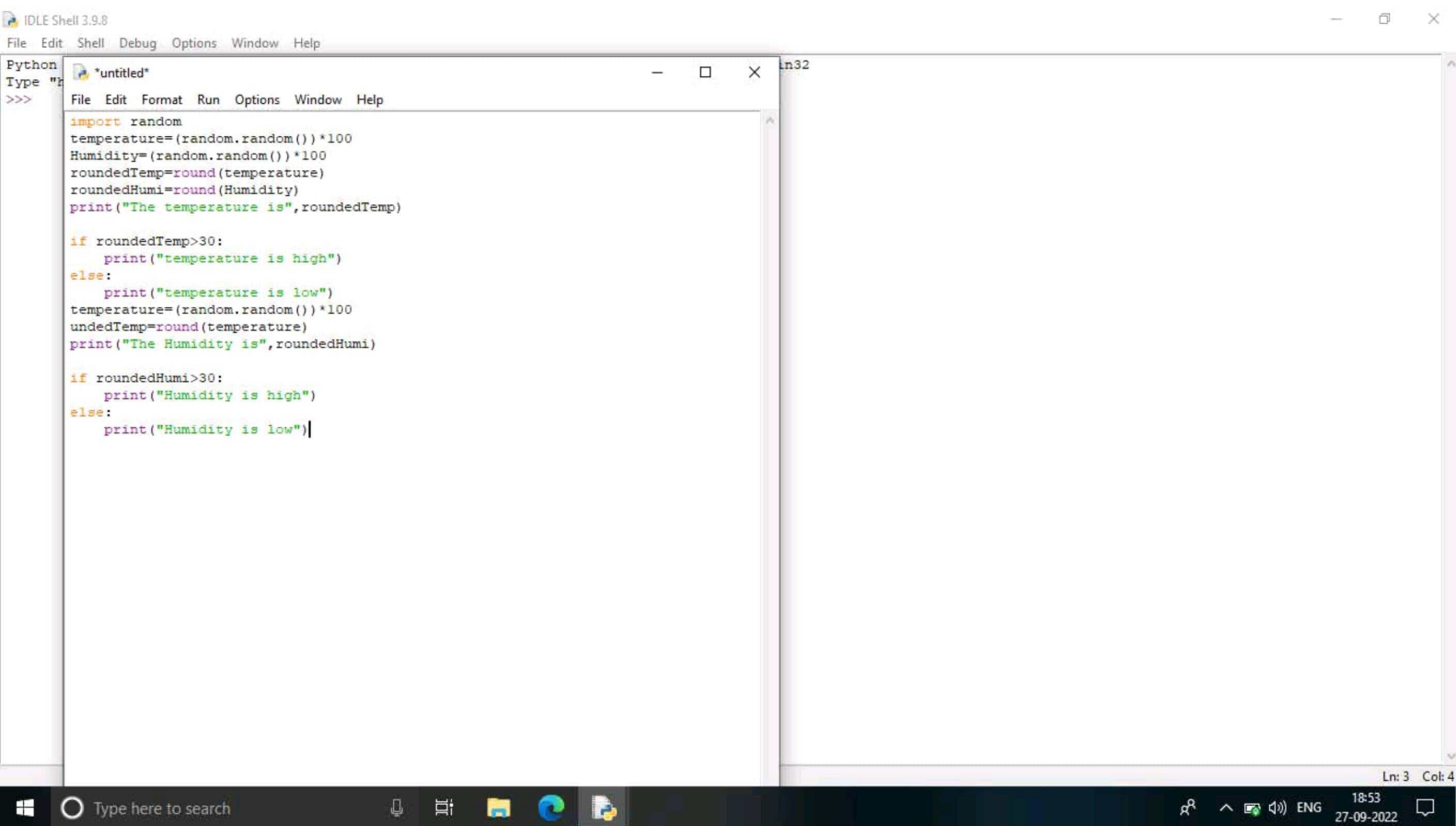


# Temperature Humidity Sensing

Code :



```
Python 3.9.8 Shell
File Edit Shell Debug Options Window Help
>>>
import random
temperature=(random.random()*100)
Humidity=(random.random()*100)
roundedTemp=round(temperature)
roundedHumi=round(Humidity)
print("The temperature is",roundedTemp)

if roundedTemp>30:
    print("temperature is high")
else:
    print("temperature is low")
temperature=(random.random()*100)
undedTemp=round(temperature)
print("The Humidity is",roundedHumi)

if roundedHumi>30:
    print("Humidity is high")
else:
    print("Humidity is low")
```

The screenshot shows the IDLE Python 3.9.8 Shell interface. The main window displays a Python script for temperature and humidity sensing. The script imports the random module, generates random values for temperature and humidity (0 to 100), rounds them, and prints the results. It also includes conditional logic to check if the temperature or humidity is above 30, printing a message accordingly. The script is executed line by line, and the output is visible in the Shell window. The Windows taskbar at the bottom shows the time as 18:53 on 27-09-2022.

# Output:

```
IDLE Shell 3.9.8
File Edit Shell Debug Options Window Help
Python 3.9.8 (tags/v3.9.8:bb3fddf, Nov 5 2021, 20:48:33) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ELCOT/AppData/Local/Programs/Python/Python39/temp.py =====
The temperature is 11
temperature is low
The Humidity is 1
Humidity is low
>>>
>>>
===== RESTART: C:/Users/ELCOT/AppData/Local/Programs/Python/Python39/temp.py =====
The temperature is 99
temperature is high
The Humidity is 31
Humidity is high
>>>
>>>
===== RESTART: C:/Users/ELCOT/AppData/Local/Programs/Python/Python39/temp.py =====
The temperature is 65
temperature is high
The Humidity is 28
Humidity is low
>>>
>>>
```