P2. Write a program with a While loop to scale down a variable value: ask a user for (1) a base number b (as float) and (2) a target ceiling c (as float), keep executing b = b/2 for each iteration until b < c, then report the results.

Recall: While statement has syntax

While *condition*:

    # while body (execute only when condition is true)

    # statements to work in each iteration

Next statement after while–statement.

Example 1:

```
============================================================
Base number:20
Ceiling:1
b = 10.0
b = 5.0
b = 2.5
b = 1.25
b = 0.625
Final b = 0.625 after 5 iteration(s).
============================================================
```

Example 2:

```
============================================================
Base number:7
Ceiling:10
Final b = 7.0 after 0 iteration(s).
============================================================
```

Example 3:

```
============================================================
Base number:20
Ceiling:10
b = 10.0
b = 5.0
Final b = 5.0 after 2 iteration(s).
============================================================
```