

CSCE 145: Lab 8

Objectives: Understand how to get an unknown quantity of data from a user and perform calculations on it. Also, understand how to handle both numeric and non-numeric inputs from the user.

Write a Java program that asks a user to input a number of values of type double and then prints:

- the average of the values
- the smallest of the values
- the largest of the values
- the range, that is, the difference between the smallest and the largest of the values

The user is allowed to enter either positive or negative values. An entry of "end" or "stop" indicates there are no more values to be input.

Use a loop to repeatedly ask a user for input values. To get the inputs, use JOptionPane, which returns a String. Test the String for the stopping words and, if there is no match, assume the input is a number of type double. Convert the String to a double using
`double value = Double.parseDouble(input);`

Upload your solution to the dropbox at <https://dropbox.cse.sc.edu>.