

Assignment 4:

- **Q1:** Design and implement a program that reads a series of 5 doubles from the user and prints their average. Read each input value as a string, and then attempt to convert it to a double using the `Double.parseDouble` method. This method will throw an exception if the parameter given to it cannot be parsed. Read the [online documentation](#) to determine what exception should be caught. If this exception occurs (meaning that the input is not a valid number), print an appropriate error message and prompt for the number again. Continue reading values until 5 valid doubles have been entered. [15 points]

Sample Output:

```
Please enter a number: 5
Please enter a number: 5.5
Please enter a number: number
Please enter a valid number.
Please enter a number: '1
Please enter a valid number.
Please enter a number: 2
Please enter a number: 3.44565
Please enter a number: 1
The average is 3.38913.
```

- **Q2:** Write a program that reads strings from the user and writes them to an output file called `userStrings.txt`. Stop processing when the user enters the string "DONE". Do not write the sentinel string ("DONE") to the output file. [15 points] Hint: For a complete example of file IO, please see the attached `TestData` program.

Sample Output:

```
A string.
Another string.
Yet more text...
DONE
```

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