

Lab 8 Exercises

1. **File Display:** Assume a file containing a series of integers is named numbers.txt and exists on the computer's disk. Write a program that displays all of the numbers in the file.
2. **Item Counter:** Assume a file containing a series of names (as strings) is named names.txt and exists on the computer's disk. Write a program that displays the number of names that are stored in the file. (Hint: Open the file and read every string stored in it. Use a variable to keep a count of the number of times that are read from the file.)
3. **Random Number File Writer:** Write a program that writes a series of random numbers to a file. Each random number should be in the range of 1 through 500. The application should let the user specify how many random numbers the file will hold.
4. **Average of Numbers (Optional):** Assume a file containing a series of integers is named numbers.txt and exists on the computer's disk. Write a program that calculated the average of all the numbers stored in the file.
5. **Random Number File Reader (Optional):** This exercise assumes you have completed programming exercise 3, Random Number File Writer. Write another program that reads the random numbers from the file, displays the numbers, then displays the following data:
 - The total of the numbers
 - The number of random numbers read from the file