***ArrayList with Exception Handling***

In this program, we create an ArrayList to store the names of the top 10 most expensive gemstones. We utilize a for-each loop to print each gemstone in the list. The user is prompted to enter an index to retrieve a specific gemstone. We handle potential IndexOutOfBoundsException using a try/catch block, ensuring that if the user inputs an invalid index, a friendly message is displayed instead of crashing the program.

A screenshot of a computer

AI-generated content may be incorrect.

***File Handling with Random Numbers***

This program demonstrates file handling in Java. It first checks if a file named data.file exists and creates it if it does not. We use a BufferedWriter to append 10 randomly generated integers to the file, each separated by a space. After writing, we close the file and reopen it using a BufferedReader to read and display the contents. This showcases the ability to write to and read from files effectively, handling any potential IOException that may arise during these operations.

A screenshot of a computer program

AI-generated content may be incorrect.