

Java Programming Lab

Generics – P batch

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1. Write a simple generic version of method `isEqualTo` that compares its two arguments with the `equals` method and returns `true` if they're equal and `false` otherwise. Use this generic method in a program that calls `isEqualTo` with a variety of built-in types, such as `Number` or `Integer` or other derived types. Write upper bounded wildcard, lowerbounded wildcard and wildcard generic method `isEqualTo`.
2. Write a program that will read sentences from a text file, placing each sentence in its own instance of `List`. (You will create a sentence object by adding words to it one at a time as they are read.) When a sentence has been completely read, add the sentence to another instance of `List`. Once you have read the entire file, you will have an instance of `List` that contains several instances of `List`, one for each sentence read. Now ask the user to enter a sentence number and a word number. Display the word that occurs in the given position. If the sentence number or word number is not valid, provide an appropriate error message.