```
package com.company;
import java.io.*;
import java.util.*;
public class conflation {
  public static void main(String[] args) {
    try {
       Scanner sc = new Scanner(System.in);
       List<String> text = new ArrayList<>();
       readTextFile("Input.txt", text);
       int choice;
       do {
         System.out.println("1. Display the file");
         System.out.println("2. Remove Punctuation and Stop Words");
         System.out.println("3. Suffix Stripping");
         System.out.println("4. Count Frequency");
         System.out.println("5. Exit");
         System.out.print("Enter your choice: ");
         choice = sc.nextInt();
         sc.nextLine(); // Consume the newline character
         switch (choice) {
           case 1:
             displayText(text);
             break;
           case 2:
             removePunctuationAndStopWords(text);
             break;
           case 3:
             suffixStripping(text);
```

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break;
         case 4:
           countFrequency(text);
           break;
         case 5:
           System.out.println("Exiting...");
           break;
         default:
           System.out.println("Invalid choice. Please enter a valid option.");
      }
    } while (choice != 5);
  } catch (FileNotFoundException e) {
    System.out.println("File not found: " + e);
  }
}
private static void readTextFile(String filename, List<String> text) throws FileNotFoundException {
  try (Scanner scanner = new Scanner(new File(filename))) {
    while (scanner.hasNext()) {
      text.add(scanner.next());
    }
  }
}
private static void displayText(List<String> text) {
  for (String word : text) {
    System.out.print(word + " ");
  }
  System.out.println();
}
```

```
private static void removePunctuationAndStopWords(List<String> text) {
  List<String> stopWords = Arrays.asList("the", "is", "and", "of", "are", "for", "in");
  List<String> result = new ArrayList<>();
  for (String word : text) {
    String cleanedWord = word.replaceAll("[^a-zA-Z\\s]", "").toLowerCase();
    if (!stopWords.contains(cleanedWord)) {
      result.add(cleanedWord);
    }
  }
  displayText(result);
}
private static void suffixStripping(List<String> text) {
  for (int i = 0; i < text.size(); i++) {
    String word = text.get(i);
    if (word.endsWith("ing") || word.endsWith("ed") || word.endsWith("s")) {
      text.set(i, word.substring(0, word.length() - 3)); // Remove the last 3 characters
    }
  }
}
private static void countFrequency(List<String> text) {
  Map<String, Integer> wordCount = new HashMap<>();
  for (String word : text) {
    wordCount.put(word, wordCount.getOrDefault(word, 0) + 1);
  }
  wordCount.forEach((word, count) -> System.out.println(word + ": " + count));
```

```
}
```

Output

```
conflation ×

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Users\HP\Desktop\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=54665:C:\Users\HP\Desktop\IntelliJ IDEA Community 2021.2\lib\idea_rt.jar=5
```

```
2. Remove Punctuation and Stop Words
3. Suffix Stripping
4. Count Frequency
5. Exit
Enter your choice: 4
all.: 1
added: 2
before: 1
had: 1
strips: 1
wondering: 1
that: 2
seconds: 1
his: 1
Hello: 1
would: 3
else: 1
This: 1
few: 1
He: 2
1f: 2
day: 2
```