

```

1 package lab11;
2
3
4 import java.util.Scanner;
5
6 public class RemoveVowels {
7     public static void main(String[] args) {
8         // Create a Scanner object to accept input from the user
9         Scanner scanner = new Scanner(System.in);
10
11         // Prompt the user for input
12         System.out.println("Enter a string:");
13         String input = scanner.nextLine();
14
15         // Close the scanner
16         scanner.close();
17
18         // Call the method to remove vowels from the string and display the result
19         String result = removeVowels(input);
20         System.out.println("String after removing vowels: " + result);
21     }
22
23     // Method to remove vowels from a given string
24     public static String removeVowels(String str) {
25         // Convert the string to uppercase to make vowel comparison case-insensitive
26         String upperStr = str.toUpperCase();

```

Problems Javadoc Declaration Console X

<terminated> NameAbbreviation [Java Application] C:\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.4.v20240802-15\

Enter the full name (first, middle, last):

Guhan

The name in short form: Guhan

```
1 package lab11;
2
3
4 import java.util.Scanner;
5
6 public class NameAbbreviation {
7     public static void main(String[] args) {
8         // Create a Scanner object to accept input from the user
9         Scanner scanner = new Scanner(System.in);
10
11         // Prompt the user for input (full name with first, middle, and last name)
12         System.out.println("Enter the full name (first, middle, last):");
13         String fullName = scanner.nextLine();
14
15         // Close the scanner
16         scanner.close();
17
18         // Split the input string into words (first, middle, last names)
19         String[] nameParts = fullName.split(" ");
20
21         // Initialize a StringBuilder to store the result
22         StringBuilder abbreviatedName = new StringBuilder();
23
24         // Process the first and middle names (if present)
25         for (int i = 0; i < nameParts.length - 1; i++) {
26             // Take the first character of each name part and append a period
27             abbreviatedName.append(nameParts[i].charAt(0)).append(".");
28         }
29         // Append the last name
30         abbreviatedName.append(nameParts[nameParts.length - 1]);
31
32         // Print the abbreviated name
33         System.out.println("The name in short form: " + abbreviatedName);
34     }
35 }
```

Problems @ Javadoc Declaration Console X

<terminated> NameAbbreviation [Java Application] C:\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.4.v202408

Enter the full name (first, middle, last):

Guhan

The name in short form: Guhan

```
1 package lab11;
2
3
4 import java.util.Scanner;
5
6 public class LongestWord {
7     public static void main(String[] args) {
8         // Create a Scanner object to accept input from the user
9         Scanner scanner = new Scanner(System.in);
10
11         // Prompt the user for input
12         System.out.println("Enter a string/sentence:");
13         String input = scanner.nextLine();
14
15         // Close the scanner
16         scanner.close();
17
18         // Call the method to find the longest word and its length
19         String[] words = input.split("\\s+"); // Split the sentence into words using whitespace
20         String longestWord = "";
21
22         // Loop through the words to find the longest one
23         for (String word : words) {
24             if (word.length() > longestWord.length()) {
25                 longestWord = word; // Update longestWord if current word is longer
26             }
27         }
28     }
29 }
```

<terminated> LongestWord [Java Application] C:\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.4.v20240802-1551\jre

Enter a string/sentence:

HII I AM GUHAN

The longest word: GUHAN

The length of the word: 5