

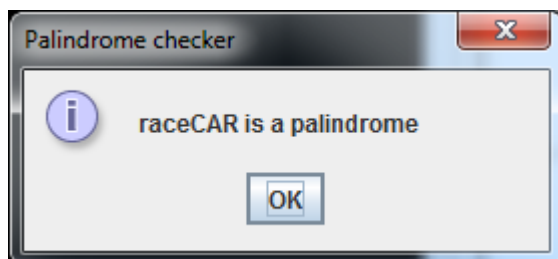
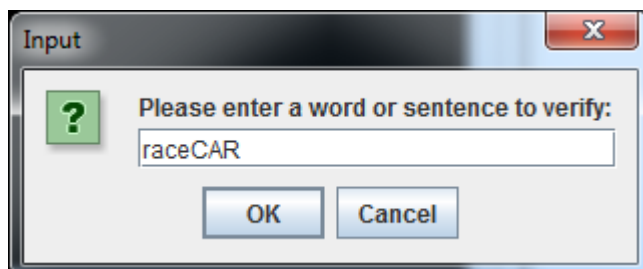
Palindrome Checker Program

Definition: A word (or sentence) written in reverse order that produces the same word (or sentence) is referred to as a palindrome. Examples include: madam, racecar, mom, dad, level, etc.

Sample Solution:

```
1  /* PalindromeChecker.java
2     This program checks if a word is a palindrome
3     Author: Chad Stevens (217079603)
4     Date created: 29 April 2018 */
5
6  import javax.swing.JOptionPane;
7
8  public class PalindromeChecker {
9      public static void main(String args[]){
10         String word, upWord;
11         String reverse = "";
12         int size;
13
14         word = JOptionPane.showInputDialog(null, "Please enter a word or sentence to verify: ", "Input", JOptionPane.QUESTION_MESSAGE);
15         upWord = word.toUpperCase();
16         size = upWord.length(); // length() because its a string method
17
18         for(int i = (size - 1); i >= 0; i--) {
19             reverse += upWord.charAt(i);
20         }
21
22         if (reverse.equals(upWord)) {
23             JOptionPane.showMessageDialog(null, word + " is a palindrome", "Palindrome checker", JOptionPane.INFORMATION_MESSAGE);
24         }
25         else {
26             JOptionPane.showMessageDialog(null, word + " is not palindrome", "Palindrome checker", JOptionPane.INFORMATION_MESSAGE);
27         }
28     }
29 }
```

Sample Run #1:



Sample Run #2:

