

Assignment name: Palindrome Mastery Project - Chapter 9  
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## Reflection Log

Prompt user for a string, then save the string as userString (Shown below)

```
System.out.print("Enter a word: "); // Prompt user for a word
String userString = userInput.nextLine(); //Save the user input
```

Removes spaces from word, then turns it into an uppercase word (Shown below)

```
userString = userString.replaceAll("\\s+", "").toUpperCase();
```

Create an array which will contain the reverse characters of the word (Shown below)

```
char[] lettersPalindrome = new char[length];
```

Add the letters from LettersInsideString to this new array but in reverse order (Shown below)

```
int lengthofArray = lettersInsideString.length - 1;
for (int i = 0; i < length; i++) {
    lettersPalindrome[i] = lettersInsideString[lengthofArray];
    lengthofArray--; //Set the characters from the lettersInsideString array into the lettersPalindrome array but in the reverse order
}
```

Print statement depending on if users word is a palindrome or not by comparing it to lettersPalindrome array (Shown below)

```
if (userString.equals(lettersPalindrome)) {
    System.out.print("Your word is a palindrome. "); // Print if user word is a palindrome.
}
else {
    System.out.print("Your word is not a palindrome. "); // Print if users word is not a palindrome.
}
```