Credit 2120 Assignment E8Palindrome

Create a Palindrome application that prompts the user for a string and then displays a message indicating whether or not the string is a palindrome.

How has your program changed from planning to coding to now? Please explain?

Created input

And prompt

Checking if palindrome

```
String phrase = input.nextLine();

// Check if the string is a palindrome
if (isPalindrome(phrase)) {
    System.out.println("The entered string is a palindrome.");
} else {
    System.out.println("The entered string is not a palindrome.");
}
}
```

Method for checking if palindrome

Final code

```
import java.util.Scanner;
6 /*
  Program: E8Palindrome.java
  Purpose: Create a Palindrome application that prompts the user for a string and then displays
  Course: Computer Programming 20
       public static void main(String[] args) {
            Scanner input = new Scanner(System.in);
            System.out.println("Enter a word or phrase: ");
            String phrase = input.nextLine();
            // Check if the string is a palindrome
            if (isPalindrome(phrase)) {
            System.out.println("The entered string is a palindrome.");
} else {
                 System.out.println("The entered string is not a palindrome.");
       // Method to check if a string is a palindrome
public static boolean isPalindrome(String str) {
    // Remove all non-alphabetic characters and convert to lowercase
    String cleanedStr = str.replaceAll("[^a-zA-Z]", "").toLowerCase();
            String reversedStr = new StringBuilder(cleanedStr).reverse().toString();
            return cleanedStr.equals(reversedStr);
```