Palindrome sentence are special kind of sentence which reads the same when spelled or read in a reversed order. This program prompts user to input a sentence that a user thinks is a palindrome or not and the program takes the sentence to check if the entered sentence is palindrome.

The program's name is Project1.cpp; to compile and run it, simply enter:

g++ Project.cpp

a.out

To run the program, enter a.out, then respond to the program's prompts to specify the entered sentence as palindrome. The program will check for the limit of maximum characters in the sentence (<80). Then, the program will use char array to store the characters of the sentence and remove the characters other than alphabets using its ASCII Code and place that char array in the new string named FirstString. Which is further reversed using “for” loop and stored in a new string named PalString. The FirstString and PalString are checked to be equal using “if-Statements” and result is prompted to the user. The user gets frequent outputs in between the program to make the program more readable to the user.

For example, if the user inputs the following text:

*“Sit on a potato pan, Otis.”*

The program input will look as following:

**Hello there!**

**Today we are going to check whether the inputted sentence is Palindromic sentence or not**

**Enter the sentence you want to check.**

**= Sit on a potato pan, Otis**

**You entered: Sit on a potato pan, Otis**

**The Length of the String is: 25**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

When the program terminates, following output will be prompted:

**The Sentence with no Operators = SITONAPOTATOPANOTIS**

**The reversed sentence is: SITONAPOTATOPANOTIS**

**The Sentence you inputted is a Palindromic Sentence.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

= If the user inputs the sentence that has characters greater than 80, than the program prompts the user and the main function gets called again and again unless from the else-statement unless the maximum character is met, and it will look as follows:

**Hello there!**

**Today we are going to check whether the inputted sentence is Palindromic sentence or not**

**Enter the sentence you want to check**

**= "Madam I'm Adam" is a famous character by character palindrome. Palindrome examples also exist in phrases or sentences where punctuation, capitals and spacing are ignored. For instance "Sit on a potato pan, Otis". One of perhaps the most famous palindromes that exit in this form is "Able was I ere I saw Elba."**

**You entered: "Madam I'm Adam" is a famous character by character palindrome. Palindrome examples also exist in phrases or sentences where punctuation, capitals and spacing are ignored. For instance "Sit on a potato pan, Otis". One of perhaps the most famous palindromes that exit in this form is "Able was I ere I saw Elba."**

**The Length of the String is : 312**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**You Entered More than 80 Characters. Please Re-Enter the Sentence.**

**Thank you.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Hello there!**

**Today we are going to check whether the inputted sentence is Palindromic sentence or not**

**Enter the sentence you want to check**

**= ….**