Palindrome Assignment.

1. Questions

I would ask the questions below to understand the data structure, the type of defects to look out for and save time during testing.

Does the program check for palindrome numbers, words, and sentences?

When verifying the palindrome string and sentences is it case sensitive?

Does the program check for special characters in a palindrome?

Does the program have validation?

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| **Exploratory Charter**  <https://xndev.com/palindrome> |
| **Type:** Functional  **Priority:** High  **Estimate:** 15 minutes |
| **Mission**  Explore and verify The Palindrome Exercise feature checks for words, numbers, and phrases. |
| **Goals:**  Verify that your able to type in the text area.  Verify that the submit button is clickable.  Verify that a word is a palindrome.  Verify that a number is a palindrome.  Verify that a phrase is palindrome.  Verify error handling. |
| **Defects:**  Null string gives a positive result when you click submit without entering data.  If the string is not all capital letters or small letters the palindrome is not recognized.  Spaces are not recognized within phrases.  No error handling when no input is entered. |

1. **Pseudocode**

**Start**

Input number

Reverse number

**IF** Input number== Reverse number

**Then**

Print Number is Palindrome

**Else**

Print Number is not Palindrome

**ENDIF**

**END**

**Start**

**Read** the string from the user

Calculate the length of the string

Initialize rev = “ ” [empty string]

Initialize i = length - 1

**Repeat** until i>=0:

rev = rev + Character at position ‘i’ of the string

i = i – 1

**If** string = rev:

**Print** “Given string is palindrome”

**Else**:

Print “Given string is not palindrome”

**END**