Assignment 1 design

By 1686498

Palindrome
States: enteredPhrase – Stores the entered phrase allLettersPhrase – Stores the all letters phrase lowerCasePhrase – Stores the lower case phrase backwardsPhrase – Stores the phrase backwards
Behaviours: removeNonLetters – To remove things like full stops lowerCase – To change all characters to lower case isPalindrome – To check if the word is the same forwards as it is backwards

- The users input will be stored in enteredPhrase
- isPalindrome will take in enteredPhrase
- isPalindrome will call removeNonLetters using the enteredPhrase as input
- removeNonLetters will go through the enteredPhrase character by character and copy only letters into allLettersPhrase, allLettersPhrase will then be retured by the function.
- AllLettersPhrase will then be eneterd into the function lowerCase as a paramenter
- lowerCase will change all characters to lower case and store this phrase in lowerCasePhrase, which will be returned.
- Then in isPalindome lowerCasePhrase will be reversed and stored in backwardsPhrase.
- These will strings will then be compared and isPalindrome will return either yes or no

Main:

- This will take in input from the users
- It will create the class Palindrome
- It will then run the function isPalindrome
- It will output what isPalidrome returns

Testing:

I will test with a few different samples of inputs

Input 1:

Output 1:

Nothing was entereed

Input 2:

glenelg

Output 2:

yes

Input 3:

bike

Output 3:

no

Input 4:

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BenEd
Output 4:
yes
Input 5:
betteb
Output 5:
yes
Input 6:
trie,4%eirt
Output 6:
yes
Input 7:
Race fast, safe car.
Output 7:
yes
Input 8:
ADDS is fun.
Output 8:L
no