This homework requires you to write a program that checks to see if a sentence is a palindrome. A palindrome is the same forward as backwards, which may be a single word as in “radar” or in a complete sentence or phrase. A palindrome is not normally case sensitive.

Create the form as shown below, make sure the shown access keys work and have correct tab order. The default or accept button is the Test button and the Clear button is the escape key. The Clear button should empty out the text box and the two label 3-D boxes and uncheck the check boxes. The Test button will then check the string in the Original text box to see if it is a palindrome or not.

The Test button procedure needs to call three general procedures that you must write. Two of them will be functions and one will be a procedure. The two functions are: “IsPalindrome” and “FilterSentence”, and the procedure should be called “DisplayReverse”.

“FilterSentence” should have three value parameters and return a string. The parameters should be the inputted string and then two Boolean values, one each for the check boxes. The main purpose of this function is to take the inputted string and then filter out the spaces and punctuation if need be, then return the filtered string when done. Should also change all letters to upper case in this function as well, since “raDAR” should be considered a palindrome.

“IsPalindrome” will have one value parameter and return a Boolean value. It should accept the filtered string then determine if it is the same forward as backward and return a True or False.

“DisplayReverse” will just have one value parameter and will just display the reverse of the filtered string in the appropriate label.

Make sure all functions and procedures you write are well commented, both in code and in procedure heading as well. Look at examples given in class for ideas how to comment them.

I would take your time and write one procedure at a time. Remember to do as little at a time as possible.