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**Web Programming with JavaScript (151IIW511)**

**Assignment 6**

Enter the “word”= palindrome and click on enter. (This will call the function mainProg())

Function mainProg()

Set variable ”word” is an array;

“Word” will get the element value of palindrome (id=palindrome from the input tag on html);

Set variable “length” = to the character(string) length of “word”;

Set variable “blank”; this is equal to space/blank;

Set variable counter is initial value is 0;

Set variable spacechecker is an array;

Set variable spacechecker will get the value of “word”;

Set variable max is “length”-1;

Set variable flag is set to “0”;

Start the loop; For counter is “0”; counter<=max; increment counter by 1;

If the spacechecker finds an array value = to blank then

Alert the user the entry is invalid and spaces are not allowed;

Increment the counter by 5 such that it will end the looping process;

Set flag = 1; (This will indicate that the entered word is NOT a palindrome.

If the wordcheck() is true and flag =0 🡨 (wordcheck() calling out the wordcheck function, passing the variable “word”; Returning the value “true” or “false”)

Palindrome() 🡨 Calling out the function Palindrome function, passing the variable “word”. Returning the value “true” or “false”.

End mainprog function

Function wordcheck() 🡨 Validates the entered word. Whether the word is too long, short or if there are spaces. Using “word” as the parameter;

Set variable “length”= to the character(string) length of “word”;

If the length <=10 and length>=3 {

Return true;

Call the palindrome function;}

Else if length < 3 {

Return false;

Alert the user the entry is invalid and the word is too short; }

Else if length = null {

Return false;

Alert the user the entry is invalid and inform the user to enter a word; }

Else

Alert the user the entry is invalid and the word must be no more than 10 characters;

End wordcheck function;

Function palindrome 🡨 Checks the word is a palindrome or not. Using “word” as the parameter;

Set variable “I”=0

Set variable “wordchecker” is an array;

Set variable wordchecker =word;

Set variable “length”= to the character(string) length of “word”;

Set variable max =length-1;

Set variable originalMax=max;

Start of loop for ctr=0; ctr<=originalMax; increment ctr by 1

If wordchecker get the array value of [i]= wordchecker gets the array value of [max] {

I=i+1; (setting an incremented value of [i] to move up the array)

Max=max-1; (setting a decremented value of [max] to move down the array)

If ctr=originalMax {

Alert the user the entered word is a palindrome; } }

Else { Alert the user the entered word is NOT a palindrome }

} End function palindrome;