(group - D) \* Data Structure Lab (DSL) - Practical Number - 9 Name: - Showstuck Shrikant Kalsa.

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Roll Number: 
Butch: -Department: - Computer Department College: - AISSMSS IOIT. Title:- To check whether the given string is palindrome or not using stack inc++. Lyricaly, punctuation, capitalization and spaces are ignored. The way to check for a palindrome is to reverse the characters in the string and then compare them the original-in a palindrome, the sequence will be identical. Unite a c++ pregram with functions— 1) To print original and reversal string using stack. 1) To study and learn stack.
2) To implement operations on stack.
3) To understand and check polindrome string.

Theory:
A stack is an ordered list in which all insertions and deletions
are made at one end called the top. It is a dalastructure which
Theory:-  Theory:-  A stack is an ordered list in which all insertions and deletions  are made at one end called the top. It is a datastructure which  passes LIFO i.e.
A polindrame is a stoing of character that the same
Palindrome String -  JA pstindrome is a string of character that the same  forward and backward. Typically, punctuation, capitalization and  spaces are ignored.
snaces are ignored.
Examples:-
i) was it a roz or a cal I saw?
2) J did sul f?
Examples:-  1) Ulas it a var or a cat I saw?  2) I did, did I?  3) Top spot.
Algorithm:-
Step 1 - Start
16 a list a day not advance which consists of starks to store the string
sign 2 - break a wass province where was a stack.
Styp2- breate a class palindrome which consists of stacks to store the string and member methods performing operations on stack.
Step 3 - Accept a string from the user and store it in stack.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Step 4 - Remove whitespaces, punctuations, special characters from in survey, one
Step 4 - Remove whitespaces, punctuations, special characters from the string. Als
Step 5 - Display the updated string.

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Styp6-Reverse the updated string.
Styp 7 - Display the reversed string.
Step 8- Check each and every character in the reversed string and the updated string serially.
Step 9-12 each and every character is some, then it is a palindrome string.
Styr 10 - Stop.
Analysis:- Time complexity of:-
Analysis:-  Jime complexity of:-  1) push () and pop() is - O(1).  2) Reverse (), remove_whitespace(), sheek_palin-  - drome() is - O(n).
lonclusion: