Singly linked Stack

Stepi: Start

Steps: Declare the node and the required Variables

3tep3: Declare the - Rinchin Par push, pop, display and Search.

3 lepu: Read the choice from the user

Sleps: 17 the user choose to push an element, then read the element to be pushed a call the function to push the element by passing the value to the function

Slep 5.2: Set newNode → data = value

Steps. 3: check if top==null then set newworde -new -null
Steps.u: Set newwode - new -top

Steps. 5: set top = newwode & then print insertion is Successful.

Step 6: 12 user choose to pop an element from the slack then call the function to pop the element

Step 6.1: Check if top = = Null then print stack is Condy

3tep 6.2: Elise declare a pointer vanable temp & Inihalize
11 to top

Step 6.3 : print the element that being deleted

Sleps. 4: set temp = temp -> next

Step 6.5 : free the temp.

: If the user choose the display then can the Step 1 function to display the element in the stack

Stept-1 : check if top = Null then print stack is emply

Step 1.2 : Else declare a pointer Vanable temp & Inhalize it to top

3/107.3: Repeat steps below while temp-next-1= 2NOW

3tep 7-4 : print temp - data

Stp1.5 : Set temp=temp-next

Stop 18 : 12 the user choose to search an element from the stack then call the function to Search as

3kep8.1: Declare a Pointer Vanable ptr and other neccessary vanable

8tep 8:2: Inihalize ptr = top

Step 8.3 : check of ph = non then print Stack empty

Step 8. 4: Else read the element to be searched

Step 8.5: Repeat step 8.6 to 8.8 while phi! = nul Step 8.6: check 13 ptr ->dala == item then print clement founded and to be located and Step 8.7: Else Set Alag=0

Step 8.8: increment it by 1 and bet plat -ptr -next

Step 8-9: check if blag so then print the element not

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34p9: end