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-		1)	100.	(7

Aim: -

Department of Computer Engineering has Student = club named 'pinnade dub', Students of Second third and final year of department can be granted membership on request. similarly one may counds the memba of dub. first node is reversed for president of dub and last node is reserved for secretary of dub. write at program to maintaint dub members information using singly linked list - store student PRN & Name. corîte function to: OAdd & delete the member as well as president

or even secretary.

O computer total samber of member of club O Display members

W two linked list exists you two division Concatenate two lists

Hardware 1 software Required:

lab computer, att fompiles, Edipse for att

Pre requisites!-

knowledge of ctt programming language

and linked list -

Theory . linked list is a linear data structure that contain Sequence of element Such that each elements links to its next element in the sequence, Each element

in alinked list is called as "Node !! Each node Tist is own dodg and the address of the next node

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produces a reservoir, as setting one or designed on the contract of the contra	
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hence forming achain like structure. linked lists are used to create tree & graphs.

- Type of linked_lists!

 (1) Singly linked list

 (2) Doubly linked list
 - (5) cruda linked list

Singly linked list!

It contain nodes which have a data part as well as an addrss-partie next, which points to the next node in the sequence of nodes Single linked list is a sequence elements in which every elements has link to its next element in the sequence

/ nead

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Data Next

In a single linked list, the address of the first node is always stored in reference node known as front or head

flways next part of the last node must be NULL.

Algorithm -

Step1: start

Stepz. Declare a variable as head temp.

steps: Define a function to create anodes accept name & Roll No- in nod,

(35)

Page No.

step 4: Define a function for the president 2 numbers memory & store data & address of the 3 president

let node N= new node (); if Chead = = NULLJ;

head = N; Cout < " Enter Roll No" LLN -> roll; Cout <1 " Enter Name" <1N > name.

Step 6: - Display the president member 8 Sceretary at last

confile (temp!= NULL) {
Cout << "Roll No. of Student: " < / temp-> ROLLNO. Il " In Name of Student: < L temp-> name; temp = temp > next;

Step 7: 8top.

Condusion.

we have studied & implement the loncept of Singly linked list & performed various operation