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Aim:

write at program for storing binary number using doubly linked list. write function to:

O to compute 1:8 & 2:8 complement.

O Add two binary number.

objective:-

O to understand the concept of linked list. & to implement the concept of doubly-linked

(a) to implement function for completing 1'8 & 2'3 complement of binary number

Hardware / 801 tware required:

Computer lab, Estipse with Ut

Binary Number is a number, expressed in the base - 2 marneral system or binary numeral system, a method of representation or mathematical expression which uses only two number or bit called o and 1/3 complement. The oneis complement of a binary number is the value obtained by investing all the

bit in the binary representation of the number (swapping o's and I's)

10/0-) 1'e (omplement = 0/0/ 1100 -> 1'3 (omplement = 001/

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2's Complement:

added to the is complement of the binary number. In the 2's (omplement representation of binary number number. the msB represent the sign with a'o' used for plus sign and a'll used for a minus sign. the remaining bit are used to represent magnitude.

0111-> 218 (omplement = 100) 1100-> 218 (omplement = 0100

Doubly linked list: -

Doubly linked list is a complex type of linked list in which a node Contains, a pointy to the previous as well as the next node in theSequence therefore, in a doubly linked list, y node Consists of three parts. Node data i pointy to the next mode in the sequence & pointy to the previous node in the sequence.

Head | Data | Next

Head?

Nemony Representation of a doubly linked list:

Generally, cloubly linked list consumer,

more space for every node and therefore, (allogemore expansive basic operations such as insertion

