Aim: To locate a number in a given list.

Algorithm:

- 1. Enter the size of the list, say n.
- 2. Declare an array, 'a' of given size.
- Begin For i=0 to n-1 Input a_i, i.e. the elements of the list. End for.
- 4. Enter the no. to be searched in the list, say x.
- 5. Begin For i=0 to n-1

IF a_i = x

Print I (position)

End Program

End For

- 6. Print "Not found".
- 7. End

Flow Chart:





Output:

Enter the elements of the list Which no. do you wish to find? The no. is at 5th position in the list. Enter the size of the list Enter the elements of the list Which no. do you wish to find? Sorry, the no. can't be found manas@manas-VirtualBox:~/NA\$