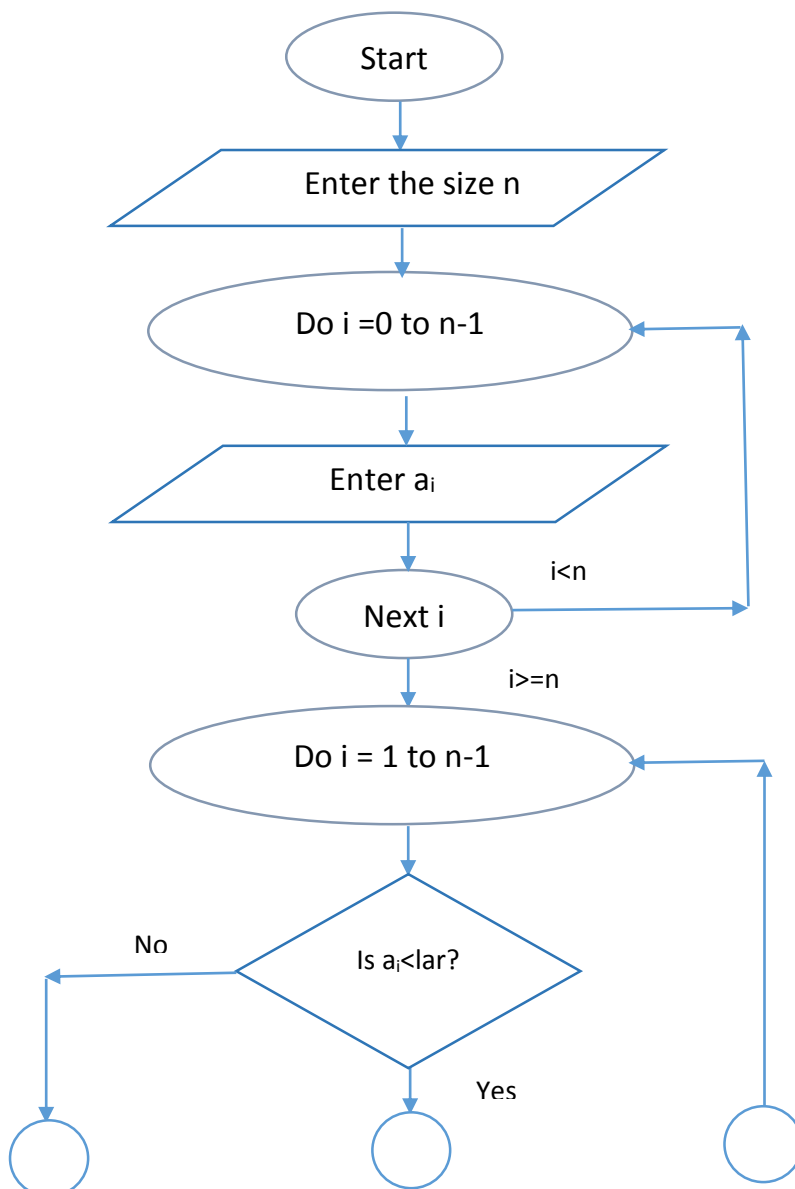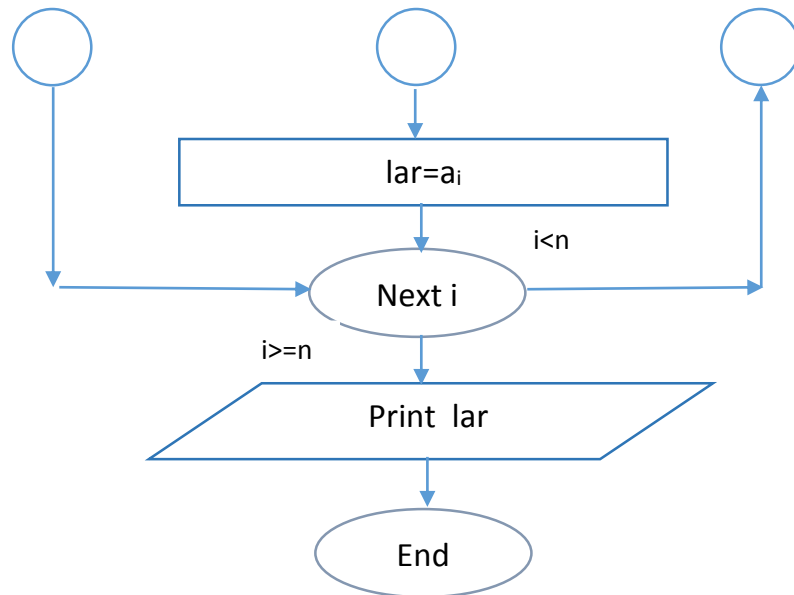**Aim**: To find the largest number in a list.

Algorithm:

1. Enter the size of the list, n.
2. Enter the elements of the list:
   Begin For i=0 to n-1
        Enter a_i
   End For i
3. Set large=a_1
4. Begin For i=1 to n-1.
       If a_i>lar
          Then set lar=a_i
       Else
          Set lar=lar.
   End For
5. Print lar, the largest no.

Flow Chart:

$lar=a_i$

$i<n$

Next i

$i>=n$

Print lar

End

Program:

```cpp
#include<iostream>
using namespace std;
int main()
{
    int n,i;
    cout<<"\nEnter the size of the list:\n";       //Get the size of the list
    cin>>n;
    double a[n];                                    //Declare an array to store the list
    cout<<"\nEnter the elements of the list:\n";
    for (i=0;i<n;i++)                               //Get the elements of the list
        cin>>a[i];
    double lar=a[0];
    for (i=1;i<n;i++)
        lar=(a[i]>lar?a[i]:lar);                    //so that 'lar' gets assigned the largest value in the list
    cout<<"\n The largest no. is: "<<lar<<endl;     //Print 'lar'
    return 0;
}
```

Output:

```
Enter the size of the list:
5

Enter the elements of the list:
100     -999    0       2000    1

 The largest no. is: 2000
```

```
Enter the size of the list:
8

Enter the elements of the list:
9898.5
-0.1
100.4
-9999.9
0
9898.6
5
41

 The largest no. is: 9898.6
```