```
#include<iostream>
using namespace std;
int main()
{
      int a[10], i, n, number, low=0, high, mid, flag=0;
      cout << "Enter the size of array:";
      cin>>n;
      cout<<"\n Enter the elements of array:";</pre>
      for(i=0;i<n;i++)</pre>
      {
            cin>>a[i];
      }
      cout<<"\n Enter array elements:";</pre>
      for(i=0;i<n;i++)</pre>
      {
            cout<<"\t"<<a[i];
      }
      cout<<"\n Enter the number to be search:";</pre>
      cin>>number;
      high=n-1;
      while(low<high)</pre>
            mid=(low+high)/2;
            if(number==a[mid])
            {
                  flag=1;
                  break;
                  if(number<a[mid])</pre>
                  low=mid+1;
                  }
                  else
                    high=mid-1;
      if(flag=1){
            cout<<"Number is found";</pre>
      }else{
            cout<<"Number is not found";</pre>
}
      }
OUTPUT:
Enter the size of array:3
Enter the elements of array:
10
20
30
Enter array elements:10
                                     20
                                           30
Enter the number to be search:30
Number is found
```