```
// Program No.2
    /* Aim : Write a Program in C++ To search a number using Binary
                                 Search*/
#include<iostream.h>
#include<conio.h>
Int bsearch(int a[],int n);
void main()
clrscr();
int a[10],i,k,n,loc;
cout<<"Enter 10 no's in ascending order:-";</pre>
for(i=0;i<10;i++)
     {cin>>a[i];
     }
cout<<"original no's are:-"<<endl;</pre>
for(i=0;i<10;i++)
  {cout<<a[i]<<endl;
  }
cout<<"Enter no. you want to search:-";</pre>
cin>>n;
loc = bsearch(a,n);
if(loc==0)
  {cout<<"Number not found";
}else
 {cout<<"The location of the no. is:-"<<loc;
  }
getch();
  }
int bsearch(int a[10],int n)
  {int mid, lb, ub;
1b=0;
ub=9;
while (ub>=lb)
  \{mid=int((ub+lb)/2);
if(a[mid] == n)
   {return(mid+1);
if(a[mid]>n)
   {ub=mid-1;
}else
   {lb=mid+1;
   } }
return(0);
}
```