**Program :**

#include <stdio.h>

void main()

{

int n,i,f,c=0,l=0,u,mid;

printf("Enter The Number of Elements : ");

scanf("%d",&n);

printf("Enter The ELements : \n");

int a[n];

for(i=0;i<n;i++)

scanf("%d",&a[i]);

printf("Enter The Element to be searched : \n");

scanf("%d",&f);

u=n;

while(l<u)

{

mid=(l+u)/2.0;

if(a[mid]==f)

{

printf("Element found ");

c++;

break;

}

if(a[mid]>f)

u=mid-1;

if(a[mid]<f)

l=mid+1;

}

if(c==0)

printf("Element not found");

}