**Practical no. 9**

**AIM:**To write a program for performing Binary Search

**PROGRAM**:

#include<stdio.h>

void main()

{

int a[10],e,p=0,n,i,j,l,h,m;

printf("Enter the number of elements in the array:");

scanf("%d",&n);

printf("Enter elements in array:");

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

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

l=0;

h=n-1;

printf("\nEnter element to be searched:");

scanf("%d",&e);

while(l<=h)

{

m=(l+h)/2;

if(a[m]==e)

{

printf("Element found at position:%d",m+1);

break;

}

else if(a[m]>e)

h=m-1;

else

l=m+1;

}

if(l>h)

printf("Element not found!");

}

**OUTPUT:**

Enter the number of elements in the array:6

Enter elements in array:1

3

5

7

9

11

Enter element to be searched:5

Element found at position:3