* Solved Problem---

#include<iostream>

using namespace std;

int binarySearch(int \*arr, int key, int start, int end)

{

int mid = (start+end)/2;

for(int i = start; i<end; i++){

if(arr[mid] == key)

{

return mid;

break;

}

else if(arr[mid] < key)

{

mid++;

}

else if(arr[mid]>key){

mid--;

}

else{

return 0;

}

}

}

int main()

{

int n, key;

cout<<"Enter the size of the array and value"<<endl;

cin>>n>>key;

int arr[n];

cout<<"Enter the Elements"<<endl;

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

cin>>arr[i];

}

int result = binarySearch(arr,key, 0, n);

cout<<"Your value is found at index::"<<result;

return 0;

}

Output—

