⇨ 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—

```
Enter the size of the array and value
7   5
Enter the Elements
2 3 5 7 8 9 10
Your value is found at index::2
--------------------------------
Process exited after 36.03 seconds with return value 0
Press any key to continue . . .
```