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Batch :T2
Roll No:22
Assignment No.:8
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INPUT:

```cpp
#include
<iostream>
using namespace std;


int main()
{
    int n;
    cout<<"Enter the size of array =>";
    cin>>n;

    int arr[n];
    cout<<"Enter "<<n<<" Integers in ascending order => \n";
    for(int i=0;i<n;i++)
        cin>>arr[i];

    int target;
    cout<<"Enter the number you want to search => ";
    cin>>target;

    int start = 0, end = n-1, mid;
    int pos= -1;

    while(start<=end)
    {
        mid = (start+end)/2;

        if(arr[mid]==target){
            pos = mid;
            break;
```

```cpp
                }

                else if(arr[mid]<target)

                    end = mid -1;

                else

                    start = mid + 1;

        }


        if(pos==-1)

            cout<<target<<" is not present in the array"<<endl;

        else

            cout<<target<<" is present in the array at position
"<<pos<<endl;


        return 0;

}
```

OUTPUT :