NAME – DEEPAK BHATI ROLL NO – 25581 DAA ASSIGNMENT ON BINARY SEARCH.

```
#include <iostream>
using namespace std;
int BinarySearch(int arr[], int n, int key)
{ int s=0 ,l=n;
while (s<=I)
{
  int mid=(s+l)/2;
  if (key<arr[mid])
  {
    l=mid -1;
  }
  else if (key>arr[mid] )
  {
    s=mid+1;
  else if (key ==arr[mid])
    return mid;
}
  return -1;
  }
```

```
int main()
{ int n,key;
  cin>>n;
  int arr[n];
  for (int i=0;i<n;i++)
  {
    cin>>arr[i];
  }
  cin>>key;
 int r=BinarySearch(arr , n ,key);
  if (r==-1) cout<<key<<" is not present"<<endl;</pre>
  else {
  cout<<key<<" is present at index "<<BinarySearch(arr , n ,key) +1;</pre>
}
  return 0;
}
            OUTPUT:1
            6
            15 18 21 45 67 899
            899
            899 is present at index 6
```

OUTPUT: 2

8

34 67 98 99 123 139 666 999

10

10 is not present