```
1 //C program to Demonstrate binary search
 2 #include<stdio.h>
 3 #include<conio.h>
 4
 5 void main()
 6 {
 7
      int first, last, middle, size, i, sElement, list[100];
 8
 9
10
    printf("Enter the size of the list: ");
      scanf("%d",&size);
11
12
    printf("Enter %d integer values in ascending order\n", size);
13
14
    for (i = 0; i < size; i++)</pre>
15
        scanf("%d",&list[i]);
16
17
    while(1)
18
19
    {
20
            for (i = 0; i < size; i++)</pre>
              printf(" %d",list[i]);
21
22
23
24
25
          printf("\nEnter value to be search: ");
          scanf("%d", &sElement);
26
27
         first = 0;
28
         last = size - 1;
29
          middle = (first+last)/2;
30
31
32
         while (first <= last) {</pre>
33
             if (list[middle] < sElement)</pre>
34
                first = middle + 1;
35
             else if (list[middle] == sElement) {
36
                printf("Element found at index %d.\n",middle);
37
                break;
38
             }
39
             else
               last = middle - 1;
40
41
             middle = (first + last)/2;
42
43
44
          if (first > last)
             printf("Element Not found in the list.");
45
46
47
48
       getch();
49 }
```