```
#include <stdio.h>
void main()
{
   int i, j, n, mid, low, high, item, found = 0;

   printf("Enter number of elements in the array\n");
   scanf("%d", &n);
   int a[n];

   printf("Enter %d elements in ascending order:\n", n);
   for (i = 0; i < n; i++)
   {
      scanf("%d", &a[i]);
   }

   printf("Enter element you want to search: \n");
   scanf("%d",&item);

   low = 0,high = n-1;

   for(i=0;i<(n+1)/2;i++){
      mid=(low + high)/2;
      if(item == a[mid]){
         printf("Element found at %d position\n",mid+1);
         found = 1;
         break;
```

```
    }
    else if(item < a[mid]){
      high = mid -1;
    }
    else if(item > a[mid]){
      low = mid + 1;
    }
  }
  if(found != 1){
    printf("Element not found :(\n");
  }

}
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS D:\Atharv\Desktop\Programming Sem-3> cd "d:\Atharv\Desktop\Programming
f ($?) { .\binarysearch }
Enter number of elements in the array
6
Enter 6 elements in ascending order:
5
8
12
23
45
63
Enter element you want to search:
45
Element found at 5 position
PS D:\Atharv\Desktop\Programming Sem-3\DSA\Practical 3>
```