SBA-10

1. Write a Binary search program to search the elements of the integer Array.

```
Java Demo - SBA10/src/com/ust/BinarySearching.java - Eclipse IDE
                                                                                                                                                                                           a
File Edit Source Refactor Navigate Search Project Run Window Help
                                                                                                                                                                                                Q 1818
BinarySearching.java ×
    1 package com.ust;
2 public class BinarySearching {
          static int binarySearch(int a[], int beg, int end, int val)
                int mid;
if(end >= beg)
                   mid = (beg + end)/2;
if(a[mid] == val)
                       return mid+1;
                 else if(a[mid] < val)
{</pre>
       return binarySearch(a, mid+1, end, val);
}
                   else
{
    return binarySearch(a, beg, mid-1, val);
}
           Writable Smart Insert 19:18:492
Java Demo - SBA10/src/com/ust/BinarySearching.java - Eclipse IDE
                                                                                                                                                                                              O
                                                                                                                                                                                                    ×
File Edit Source Refactor Navigate Search Project Run Window Help
                                                                                                                                                                                      Q 🔡 🐉
else if(a[mid] < val)</pre>
       return binarySearch(a, mid+1, end, val);
}
                   return binarySearch(a, beg, mid-1, val);
}
         }
}
return -1;
}
           public static void main(String[] args){
  int a[] = (8, 10, 22, 27, 37, 44, 49, 55, 69);
  int val = 27;
  int n = a.length;
  int res = binarySearch(a, 0, n-1, val);
  System.out.print("The elements of the array are: ");
  for (int i = 0; i < n; i++) {</pre>
           {
    System.out.print(a[i] + " ");
           }
System.out.println();
System.out.println("Element to be searched is: " + val);
if(res == -1)
System.out.println("Element is not present in the array");
else
System.out.println("Element is present at " + res + " position of array");
```