File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer ×

> JavaProgram8
> JavaProgram9
> NewProject
∨ PracticeProject1
  > JRE System Library [JavaSE-1.8]
  ∨ src
    ∨ (default package)
      > linearSearch.java
∨ PracticeProject2
  > JRE System Library [JavaSE-1.8]
  ∨ src
    ∨ (default package)
      > binarySearch.java
∨ PracticeProject3
  > JRE System Library [JavaSE-1.8]
  ∨ src
    ∨ (default package)
      > ExponentialSearch.java
> PracticeProject4
> PracticeProject5
∨ PracticeProject6
  > JRE System Library [JavaSE-1.8]
  ∨ src
    ∨ (default package)
      > InsertionSort.java

ExponentialS... ×   bubbleSort.java   FixBugAppli...   InsertionSo...   *CameraRent...   MergeSort.java   QuickSort.java

```java
1  import java.util.Arrays;
2
3  public class ExponentialSearch {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7          int[] arr = {6,12,18,24,32};
8          int length= arr.length;
9          int value = 18;
10         int outcome = exponentialSearch(arr,length,value);
11
12         if(outcome<0){
13
14             System.out.println( "Element is not present in the array");
15
16         }else {
17
18             System.out.println( "Element is  present in the array at index :"+outcome);
19         }
20     }
21
22     public static int exponentialSearch(int[] arr ,int length, int value ){
23
24     if(arr[0]==value){
25         return 0;
26         }
27     int i=1;
28     while(i<length && arr[i]<=value){
29
30         i=i*2;
31     }
32     return Arrays.binarySearch(arr,i/2,Math.min(i,length),value);
33     }
34
35     }
36
```

<terminated> ExponentialSearch [Java Application] C:\Users\Srinivas\.p2\pc

```
Element is  present in the array at index :2
```

index