## **Program 6: Insertion Sort**

```
package mounika6;
public class insertionSort {
    public static void main(String[] args){
        int[] arr = {9,12,3,21,44};
        insertionSort(arr);
        for(int i=0;i<arr.length;i++){</pre>
            System.out.println(arr[i]);
        }
     }
    public static void insertionSort(int[] arr){
    int len = arr.length;
    for(int j=1;j<len;j++){</pre>
    int key = arr[j];
    int i=j-1;
    while ((i>-1) && (arr[i]>key)){
        arr[i+1]=arr[i];
    arr[i+1]=key;
}
```

```
public static void main(String[] args){
                    > DinarySearch.java
                                                                                                                                                                                                                                                                                             int[] arr = {9,12,3,21,44};
insertionSort(arr);
for(int i=0;i<arr.length;i++){</pre>
       bubblesort

JRE System Library [JavaSE-1.8]
                                                                                                                                                                                                                                                                                                                 System.out.println(arr[i]);
                                                                                                                                                                                                                                                                                     }
public static void insertionSort(int[] arr){
       exponentialsearch

JRE System Library [JavaSE-1.8]
                                                                                                                                                                                                                                                                                     int len = arr.length;
for(int j=1;j<len;j++){
   int key = arr[j];
   int i=j-1;
   while ((i>-1) && (arr[i]>key)){
      insertion sort

IRE System Library [JavaSE-1.8]
                                                                                                                                                                                                                                                                                          arr[i+1]=arr[i];
i--;
            mounika6

insertionSort.java
                                                                                                                                                                                                                                                                                      }
arr[i+1]=key;
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