```
package demo;
import java.util.HashMap;
import java.util.Map;
    public class RepeatCount {
            public static void main(String[] args) {
              String input = "learning java";
              Map<Character, Integer> charCountMap =
countCharacters(input);
              for (Map.Entry<Character, Integer> entry:
charCountMap.entrySet()) {
                 System.out.println(entry.getKey() + "=" +
entry.getValue());
            public static Map<Character, Integer>
countCharacters(String input) {
              input = input.toLowerCase();
              Map<Character, Integer> charCountMap =
new HashMap<>();
```

```
for (char ch : input.toCharArray()) {
                 if (Character.isLetter(ch)) {
                   charCountMap.put(ch,
charCountMap.getOrDefault(ch, 0) + 1);
                 }
              return charCountMap;
            }
Output:
a=3
r=1
e=1
v=1
g=1
i=1
j=1
1=1
n=2
package demo;
public class Binary {
```

```
public static int binarySearch(int[] arr, int target) {
          int left = 0:
          int right = arr.length - 1;
          while (left <= right) {</pre>
             int mid = left + (right - left) / 2;
             if (arr[mid] == target) {
                return mid;
             } else if (arr[mid] < target) {</pre>
                left = mid + 1;
             } else {
                right = mid - 1;
          return -1;
        public static void main(String[] args) {
          int[] sortedArray = {12, 34, 65, 78, 98, 102, 108,
450, 453};
          int target = 78;
          int index = binarySearch(sortedArray, target);
          if (index != -1) {
             System.out.println("Element " + target + " found
at index " + index);
           } else {
             System.out.println("Element " + target + " not
found in the array.");
        }
```

```
Output:
Element 78 found at index 3
package file;
import java.io.File;
import java.io.IOException;
public class Io {
     public static void main(String[] args) throws
IOException {
          File file = new
File("C:\\Users\\admin\\Desktop\\folder\\new.doc");
          boolean pp = file.exists();
          System.out.println(pp);
          if(pp==false) {
              file.mkdir();
               pp=file.exists();
               System.out.println(pp);
          File files = new
File("C:\\Users\\admin\\Desktop\\keerathana");
     file.createNewFile();
     File rename = new
File("C:\\Users\\admin\\Desktop\\dharshan");
     boolean sa = files.renameTo(rename);
     System.out.println(sa);
```

```
File[] s1 = files.listFiles();
     for(File s:s1) {
          if(s.isFile()) {
                String ff =s.getName();
                int last =ff.lastIndexOf(".");
                String ext=ff.substring(last+1);
                if(ext.equals("txt")) {
                     System.out.println(ff);
           }
     rename.delete();
     boolean aa = file.exists();
     System.out.println("file deleted "+ aa);
}
Output:
true
false
file deleted true
```