Practical 2

Aim: Write a Java code to Generate Random 10,000 numbers and store as 100*100 array in csv file and then apply any sorting method on the same data.

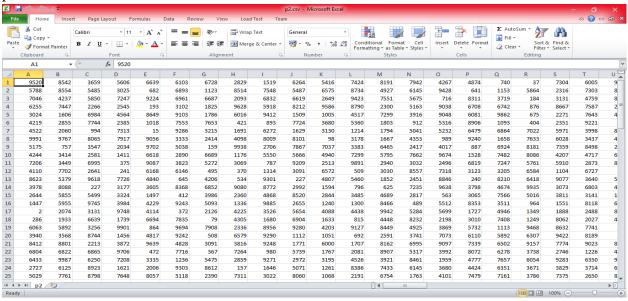
Code:

```
package p2;
import java.io.File;
import java.util.Arrays;
/**
* @author Akki
import java.util.*;import java.io.*;
public class P2 {
  public static void main(String[] args) throws IOException {
     Random r = new Random();
    File file = new File("E:/p2.csv");
    File file1 = new File("E:/p21.csv");
    FileWriter writer1 = new FileWriter(file1,false);
    FileWriter writer = new FileWriter(file, false);
    FileReader filereader = new FileReader(file);
    BufferedReader br = new BufferedReader(new FileReader(file));
    String line="";
    String a[][] = \text{new String}[100][100];
    int b[] = new int[10000];
    int masterpointer=0;
    int i, j;
    for (i = 0; i < 100; i++)
       for (j = 0; j < 100; j++)
          int value = r.nextInt(10000);
          writer.append(Integer.toString(value));
          writer.append(",");
       writer.append("\n");
     }
     writer.flush();
     while((line=br.readLine())!= null)
     {
```

```
String[] c=line.split(",");
    for(int ii=0;ii<c.length;ii++)
     b[masterpointer]=Integer.parseInt(c[ii]);
     masterpointer++;
  }
  for(i = 0; i < b.length; i++)
          System.out.print(b[i]+",");
  System.out.println();
  System.out.println();
  System.out.println();
  Arrays.sort(b);
  for(i = 0; i < b.length; i++)
          System.out.print(b[i]+",");
 int k=0;
   for (i = 0; i < 100; i++)
    for (j = 0; j < 100; j++)
     writer1.append(Integer.toString(b[k]));
     writer1.append(",");
    k++;
    writer1.append("\n");
   writer.flush();
   writer1.flush();
   writer1.close();
   writer.close();
}
```

Output:

p2.csv



p21.csv

