

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[][] = 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)
        {
```

Practical-2

```
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();
}
}
```

Practical-2

Output:

p2.csv

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	9520	8542	3659	5606	6639	6103	6728	2829	1519	6264	5416	7424	8191	7942	4267	4874	740	37	7304	6005	9
2	5788	8554	5485	3025	682	6893	1123	8514	7548	5487	6575	8734	4927	6145	9428	641	1153	5864	2316	7303	8
3	7046	4237	5850	7247	9224	6961	6687	2093	6832	6619	2649	9423	7551	5675	716	8311	3719	184	3131	4759	8
4	6255	7447	2266	2545	193	3102	1825	9628	5918	8212	9586	8790	2300	5163	9038	6708	6742	876	8667	7587	2
5	3024	1606	6984	4564	8649	9103	1786	6016	9412	1509	1005	4517	7299	3916	9048	6081	9862	675	2271	7643	4
6	4219	2855	7744	2385	1018	7553	7653	421	893	7724	3680	5360	1803	912	5316	8906	1093	404	2351	9221	1
7	4522	2060	994	7313	15	9286	3215	1691	6272	1629	3130	1214	1794	5041	5232	6479	6864	7022	5971	3998	8
8	9991	9767	8065	7917	9056	3333	2414	4098	8009	8101	98	3178	1667	4353	989	9240	1658	7633	6028	3437	4
9	5175	757	3547	2034	9702	5038	159	9938	2706	7867	7037	3383	6465	2417	4017	887	6924	8181	7359	8498	2
10	4244	3414	2581	1411	6618	2890	6689	1176	5550	5666	4940	7299	5795	7662	9674	1528	7482	8086	4207	4717	6
11	7206	3449	6995	375	9087	3823	5272	3069	787	9209	2513	9891	2940	3032	2496	6819	7247	5761	5910	2873	8
12	4110	7702	2641	241	6168	6146	495	370	1314	3091	6572	509	3030	8557	7318	3123	3205	6584	1104	6727	2
13	8623	5379	9618	7726	4840	645	4206	534	9301	227	4807	5460	1852	2451	8846	240	8210	6418	9077	3640	5
14	3978	8088	227	3177	3605	8368	6852	9080	8772	2992	1594	796	625	7235	9638	3798	4674	9935	3073	6803	4
15	2644	5855	5499	3324	1497	412	3986	2360	4868	8520	2844	3485	4689	2817	563	3065	7566	5016	3811	3141	1
16	1447	5955	9745	3984	4229	9243	5093	1336	9885	2655	1240	1300	8466	489	5512	8353	3511	964	1551	8118	6
17	2	2074	3131	9748	4114	372	2126	4225	3526	5654	4088	4438	9942	5284	5699	1727	4946	1349	1888	2488	8
18	286	1933	6639	1739	6694	7835	79	4305	1680	6904	1633	815	4448	8232	2198	3010	7408	1249	8062	2027	4
19	6063	5892	3256	9901	864	9694	7908	2336	8956	9280	4203	9127	8449	4925	3869	5732	1113	9468	8632	7741	1
20	3940	3568	8744	1456	4817	9242	508	6579	9290	1112	1051	692	2591	3741	7073	6110	5892	6307	9422	8189	2
21	8412	8801	2213	3872	9639	4828	3091	3816	9248	1771	6000	1707	8162	6995	9097	7339	6502	9157	7774	9023	8
22	6804	6822	6865	9706	472	7716	367	7264	980	5739	1767	2081	8907	5317	3992	8072	6278	3738	2746	1226	4
23	6433	9987	6250	7208	3335	1236	5475	2859	9271	2972	3195	4526	3921	8461	1959	4777	7657	6054	9283	6350	9
24	2727	6125	8923	1621	2006	9303	8612	157	1646	5071	1261	8386	7433	6145	3680	4424	6351	3671	3829	3714	6
25	5029	7761	8798	7648	8057	5118	2390	7311	3022	8060	1068	2191	6754	1763	4101	7479	7161	3786	7375	2650	8

p21.csv

File
Home
Insert
Page Layout
Formulas
Data
Review
View
Load Test
Team

Calibri
11
Font
Alignment
Number
General
Conditional Formatting
Format as Table
Cell Styles
Insert
Delete
Format
Cells
AutoSum
Fill
Clear
Sort & Filter
Find & Select

A1																						
1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
2	91	91	91	98	98	98	99	99	100	101	103	103	103	104	104	105	106	111	114	115		
3	194	195	196	197	197	200	204	204	204	207	208	209	210	212	215	218	220	220	223	223		
4	292	292	294	294	295	295	295	296	297	299	299	299	302	303	303	304	305	307	310	312		
5	395	396	397	401	403	404	404	406	406	407	407	407	407	407	408	408	409	409	410	410		
6	499	504	504	506	507	508	509	509	509	511	511	512	512	515	516	517	518	519	522	527		
7	614	615	615	616	617	619	619	619	620	623	624	625	625	625	626	628	630	630	631	631		
8	698	699	700	701	705	705	705	706	706	707	707	707	708	708	708	709	709	711	712	712		
9	804	804	806	806	807	807	807	807	810	810	813	815	816	817	818	819	821	821	821	823		
10	892	892	893	894	896	897	899	899	900	901	903	903	906	907	907	908	909	909	909	911		
11	982	983	984	985	985	986	986	986	986	987	988	988	989	989	990	993	993	994	994	994		
12	1072	1072	1072	1072	1073	1074	1074	1076	1077	1080	1080	1080	1080	1084	1084	1084	1085	1087	1088	1089	1	
13	1159	1161	1161	1162	1162	1164	1165	1167	1168	1169	1169	1171	1172	1174	1174	1176	1176	1177	1177	1179	1	
14	1258	1261	1264	1266	1267	1268	1269	1270	1270	1271	1272	1272	1274	1274	1277	1277	1278	1279	1280	1282	1	
15	1359	1359	1360	1360	1361	1362	1367	1368	1369	1370	1371	1373	1373	1374	1374	1375	1375	1377	1378	1378	1	
16	1462	1463	1464	1465	1465	1465	1469	1474	1474	1477	1478	1478	1479	1481	1483	1483	1484	1484	1484	1485	1	
17	1579	1580	1581	1582	1583	1584	1584	1585	1585	1586	1588	1588	1588	1589	1589	1590	1591	1592	1593	1594	1	
18	1666	1666	1667	1667	1668	1668	1668	1669	1671	1672	1672	1673	1675	1676	1677	1679	1680	1680	1681	1685	1	
19	1767	1769	1770	1771	1771	1772	1774	1775	1777	1778	1780	1782	1783	1784	1786	1786	1788	1789	1791	1791	1	
20	1874	1874	1874	1877	1877	1879	1879	1880	1881	1883	1884	1885	1887	1888	1888	1889	1889	1890	1894	1895	1	
21	1968	1968	1969	1970	1970	1970	1970	1972	1972	1973	1973	1974	1974	1975	1975	1976	1982	1983	1985	1987	1	
22	2058	2058	2059	2059	2060	2060	2061	2062	2064	2064	2066	2066	2066	2069	2069	2070	2072	2073	2074	2076	2	
23	2148	2149	2150	2151	2152	2152	2154	2155	2155	2157	2161	2163	2165	2168	2169	2172	2177	2179	2179	2179	2	
24	2266	2266	2267	2267	2267	2267	2269	2270	2271	2271	2273	2273	2273	2273	2274	2274	2275	2276	2276	2278	2	
25	2353	2354	2355	2357	2358	2360	2360	2360	2361	2361	2366	2369	2369	2370	2370	2370	2371	2372	2373	2375	2	

Ready
p21
100%