You have been hired by *Planet Poachers* to write a Java console application that reads, converts, sorts, and writes planet data. Create text file *PlanetDataEnglish.txt*, paste the following data into it, and place the file in your project folder.

**PlanetDataEnglish.txt**

**Planet Escape Velocity (miles/s) Mean Temperature (F) Number of Moons**

**Mercury 2.7 333 0**

**Venus 6.4 867 0**

**Earth 7.0 59 1**

**Mars 3.1 -85 2**

**Jupiter 37.0 -166 67**

**Saturn 22.1 -220 62**

**Uranus 13.2 -320 27**

**Neptune 14.6 -330 13**

**Pluto 0.7 -375 5**

Create the following methods:

| Column | Purpose |
| --- | --- |
| readTextFile | To read the data from file *PlanetDataEnglish.txt* into four parallel arrays: planets, escapes, means, and moons. |
| printArrays | To print the unsorted, converted, and sorted data using the appropriate column headers. |
| convertArrays | To convert the escape velocities from miles/s to km/s, and to convert the mean temperatures from Fahrenheit to Celsius. |
| bubbleSortArray | To sort the data by planet name in ascending order. Note that when values are swapped in one array, the same values must be swapped in the other arrays.  |
| writeTextFile | To write the data to file *PlanetDataMetric.txt* in the same layout as the input file. |

Use the methods to:

1) Read the data.

2) Print the unsorted data.

3) Convert the data.

4) Print the converted data.

5) Bubble sort the data.

6) Print the sorted data.

7) Write the data.

Here are the first few lines of the output file:

**PlanetDataMetric.txt**

**Planet Escape Velocity (miles/s) Mean Temperature (F) Number of Moons**

**Earth 11.3 15 1**

**Jupiter 59.5 -110 67 …**