**Reading From A CSV File:**

1. Put the CSV that you want to read into your project folder.

2. Make a try-catch block with 2 catch exceptions.

try

{

}

catch ( FileNotFoundException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

catch ( IOException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

3. Declare and construct FileReader object and then a BufferedReader object.

try

{

FileReader file = new FileReader( "leaderboard.csv" );

BufferedReader buffer = new BufferedReader( file );

}

catch ( FileNotFoundException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

catch ( IOException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

4. Read lines to get information.

int place;

String name;

Int score;

try

{

FileReader file = new FileReader( "leaderboard.csv" );

BufferedReader buffer = new BufferedReader( file );

String line = buffer.readLine(); // skip first row of header labels

line = buffer.readLine(); // read first row of actual data

String[] fields = line.split( "," ); // break line up into 3 parts

place = Integer.parseInt(fields[0]); // surname always in first column

name = fields[1]; // name always in 2nd column

score = Integer.parseInt(fields[2]);

}

5. Loop through multiple lines if necessary.

int place;

String name;

Int score;

try

{

FileReader file = new FileReader( "leaderboard.csv" );

BufferedReader buffer = new BufferedReader( file );

String line = buffer.readLine(); // skip first row of header labels

line = buffer.readLine(); // read first row of actual data

while(line != null)

{

String[] fields = line.split( "," ); // break line up into 3 parts

place = Integer.parseInt(fields[0]); // surname always in first column

allScores[s].name = fields[1]; // name always in 2nd column

allScores[s].score = Integer.parseInt(fields[2]);

line = buffer.readLine();

}

}

catch ( FileNotFoundException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

catch ( IOException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

6. Close the file.

int place;

String name;

Int score;

try

{

FileReader file = new FileReader( "leaderboard.csv" );

BufferedReader buffer = new BufferedReader( file );

String line = buffer.readLine(); // skip first row of header labels

line = buffer.readLine(); // read first row of actual data

while(line != null)

{

String[] fields = line.split( "," ); // break line up into 3 parts

place = Integer.parseInt(fields[0]); // surname always in first column

allScores[s].name = fields[1]; // name always in 2nd column

allScores[s].score = Integer.parseInt(fields[2]);

line = buffer.readLine();

}

buffer.close();

file.close();

}

catch ( FileNotFoundException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

catch ( IOException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

**Writing To A CSV File:**

1. Put the CSV that you want to write into your project folder.

2. Make a try-catch block with 2 catch exceptions.

try

{

}

catch ( FileNotFoundException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.writeFile >> " + ex.getMessage() );

}

catch ( IOException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.writeFile >> " + ex.getMessage() );

}

3. Declare a FileWriter object and then a PrintWriter object. *This will erase all data on the file.*

try

{

FileWriter file = new FileWriter( "leaderboard.csv" );

PrintWriter buffer = new PrintWriter( file );

}

catch ( FileNotFoundException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

catch ( IOException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

4. Write to the file.  *You can also loop through arrays to print lots of data.*

try

{

FileWriter file = new FileWriter( "leaderboard.csv" );

PrintWriter buffer = new PrintWriter( file );

buffer.println("Place,Name,Score");

}

catch ( FileNotFoundException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

catch ( IOException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

5. Close the file.

try

{

FileWriter file = new FileWriter( "leaderboard.csv" );

PrintWriter buffer = new PrintWriter( file );

buffer.println("Place,Name,Score");

buffer.close();

file.close();

}

catch ( FileNotFoundException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}

catch ( IOException ex )

{

System.out.println( "EXCEPTION in LEADERBOARD.readFile >> " + ex.getMessage() );

}