Sample Solution --- Exercise 3

This is a sample solution to the programming exercise. Your solution doesn't have to look exactly like this, but it should provide similar results.

```java
import java.io.*;
import java.util.*;

public class WriteBinaryFileExercise
{
    public static void main( String [] args )
    {
        int [] productNums = { 110, 520, 178, 172 };
        String [] productNames = { "Hammer         ",
                                   "Lawn Mower     ",
                                   "Monkey Wrench  ",
                                   "Screwdriver    " };
        int [] quantity = { 20, 8, 53, 150 };
        double [] cost = { 12.99, 79.52, 6.95, 5.99 };

        DataOutputStream out = null;

        try
        {
            out = new DataOutputStream(
                new BufferedOutputStream(
                new FileOutputStream( "products.dat" ) ));

            for ( int i = 0; i < 4; i++ )
            {
                out.writeInt( productNums[ i ] );
                out.writeChars( productNames[ i ] );
                out.writeInt( quantity[ i ] );
                out.writeDouble( cost[ i ] );
            }

            out.close();
        }
        catch( Exception e )
        {
            System.out.println( "Error writing to file" );
        }
    }
}
```

While this program does not display any output, it can be checked to at least verify that 184 bytes have been written to the *products.dat* file.