Sample Solution --- Lecture 6.1 Programming Exercise

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.

```
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.