```
Copying characters from one file into another
import java.io.*;
class CopyCharacters
      public static void main (String args[])
          // Declare and create input and output files
          File inFile = new File("input.dat");
          File outFile = new File("output.dat");
          FileReader ins = null; // Creates file stream ins
          FileWriter outs = null; // Creates file stream outs
                 ins = new FileReader(inFile); // Opens inFile
                outs = new FileWriter(outFile);// Opens outFile
                 // Read and write till the end
                 int ch;
                 while((ch = ins.read()) != -1)
                      outs.write(ch);
            catch (IOException e)
                 System.out.println(e);
               System.exit(-1);
            finally // Close files
                        ins.close();
                      outs.close();
```

```
// Writing bytes to a file
import java.io. *;
 class WriteBytes
       public static void main (String args[])
             // Declare and initialize a byte array
             byte cities[] = {'D','E','L','H','I','\n','M','A','D',
'R','A','S','\n','L','O','N','D','O','N','\n');
             // Create an output file stream
             FileOutputStream outfile = null;
              try
                    // Connect the outfile stream to "city.txt"
                    outfile = new FileOutputStream("city.txt");
                    // Write data to the stream
                    outfile.write(cities);
                    outfile.close();
             catch (IOException ioe)
                   System.out.println(ioe);
                   System.exit(-1);
```

```
// Reading bytes from a file
import java.io.*;
class ReadBytes
{
```

```
public static void main(String args[])
{
    // Create an input file stream
    FileInputStream infile = null;
    int b;
    try
    {
        // Connect infile stream to the required file
        infile = new FileInputStream(args[0]);
        // Read and display data
        while((b = infile.read()) != -1)
        {
            System.out.print((char)b);
        }
        infile.close();
    }
      catch(IOException ioe)
        {
            System.out.println(ioe);
        }
}
```

```
// Reading and writing primitive data
import java.io.*;
class ReadWritePrimitive
    public static void main (String args[]) throws IOException
        File primitive = new File("prim.dat");
        FileOutputStream fos = new FileOutputStream(primitive);
        DataOutputStream dos = new DataOutputStream(fos);
        // Write primitive data to the "prim.dat" file
        dos.writeInt(1999);
        dos.writeDouble(375.85);
        dos.writeBoolean(false);
        dos.writeChar('X');
         dos.close();
         fos.close();
         // Read data from the "prim.dat" file
         FileInputStream fis = new FileInputStream(primitive);
         DataInputStream dis = new DataInputStream(fis);
         System.out.println(dis.readInt());
         System.out.println(dis.readDouble());
         System.out.println(dis.readBoolean());
         System.out.println(dis.readChar());
         dis.close();
         fis.close();
```