

# Files

---

Shirley B. Chu

June 26, 2020

De La Salle University  
College of Computer Studies

# InputStream and OutputStream

## **Stream**

a sequence of data.

In Java, a stream is composed of bytes.

## **OutputStream**

used to write data to a destination

## **InputStream**

used to read data from a source.

- reads bytes of data from a file.

# FileInputStream

- reads bytes of data from a file.
- part to `java.io` package

# FileInputStream

- reads bytes of data from a file.
- part to `java.io` package

- */\* put in try-catch block \*/*

```
FileInputStream fis = new FileInputStream ("source.txt");  
int j;  
while ((j = fis.read()) != -1)  
    System.out.print ((char) j);  
fis.close ();
```

- reads text from a character-based input stream

# BufferedReader

- reads text from a character-based input stream
- part to `java.io` package

# BufferedReader

- reads text from a character-based input stream
- part to `java.io` package

- */\* put in try-catch block \*/*

```
BufferedReader br = new BufferedReader (  
    new FileReader ("source.txt"));  
  
int j;  
System.out.println (br.readLine ());  
br.close ();
```



- writing data to a file.

# FileOutputStream

- writing data to a file.
- part to `java.io` package

# FileOutputStream

- writing data to a file.
- part to `java.io` package

- */\* put in try-catch block \*/*

```
FileOutputStream fout = new FileOutputStream ("dest.txt");  
fout.write (100);  
String strSchool = "DLSU";  
  
byte[] b = strSchool.getBytes (); // converts to byte array  
fout.write (b);  
fout.close ();
```

- reads text from a character-based input stream

- reads text from a character-based input stream
- part to `java.io` package

# BufferedWriter

- reads text from a character-based input stream
- part to `java.io` package

- */\* put in try-catch block \*/*

```
BufferedWriter bw = new BufferedWriter (  
                                new FileWriter ("dest.txt"));  
bw.write ("Save data here");  
bw.close ();
```

😊 Thank you! 😊