File Handling in JAVA

Classes to Study :

1.OutputStream

1. FileOutputStream
2. ByteArrayOutputStream
3. FilterOutputStream
4. PipedOutputStream
5. ObjectOutputStream
6. DataOutputStream
7. BufferedOutputStream
8. PrintStream

2.InputStream

1. FileInputStream
2. ByteArrayInputStream
3. . FilterInputStream
4. . PipedInputStream
5. . ObjectInputStream
6. . DataInputStream
7. . BufferedInputStream
8. . PushBackInputStream

FileOutputStream class

1. Java FileOutputStream is an output stream used for writing data to a file.
2. write primitive values into a file
3. write byte-oriented as well as character-oriented data through FileOutputStream class

FileInputStream class

1. FileInputStream class obtains input bytes from a file
2. reading byte-oriented data (streams of raw bytes) such as image data, audio, video etc. You can also read character-stream data

BufferedOutputStream

1. used for buffering an output stream
2. It internally uses buffer to store data
3. It adds more efficiency than to write data directly into a stream.
4. Fast Performance

BufferedInputStream

1. used to read information from stream
2. When the bytes from the stream are skipped or read, the internal buffer automatically refilled from the contained input stream, many bytes at a time.
3. When a BufferedInputStream is created, an internal buffer array is created.

SequenceInputStream

1. used to read data from multiple streams
2. It reads data sequentially (one by one)

ByteArrayOutputStream

1. used to write common data into multiple files
2. the data is written into a byte array which can be written to multiple streams later

DataOutputStream

1. allows an application to write primitive Java data types
2. machine-independent way.

DataInputStream

1. allows an application to read primitive data from the input stream
2. machine-independent way

FilterOutputStream

1. Java FilterOutputStream class implements the OutputStream class
2. It provides different sub classes such as BufferedOutputStream and DataOutputStream to provide additional functionality

Console

1. Console class is be used to get input from console
2. It provides methods to read texts and passwords

String text=System.console().readLine();

System.out.println("Text is: "+text);

FileWriter

1. FileWriter class is used to write character-oriented data to a file

FileReader

1. FileWriter class is used to read character-oriented data to a file

BufferedWriter

BufferedReader

File Class

