



Core Java

Trainer: Nilesh Ghule

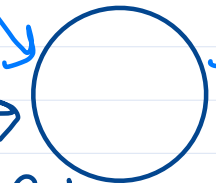


Stream

↓
ele1
|
ele2
|
ele3
|
ele4
|
ele5

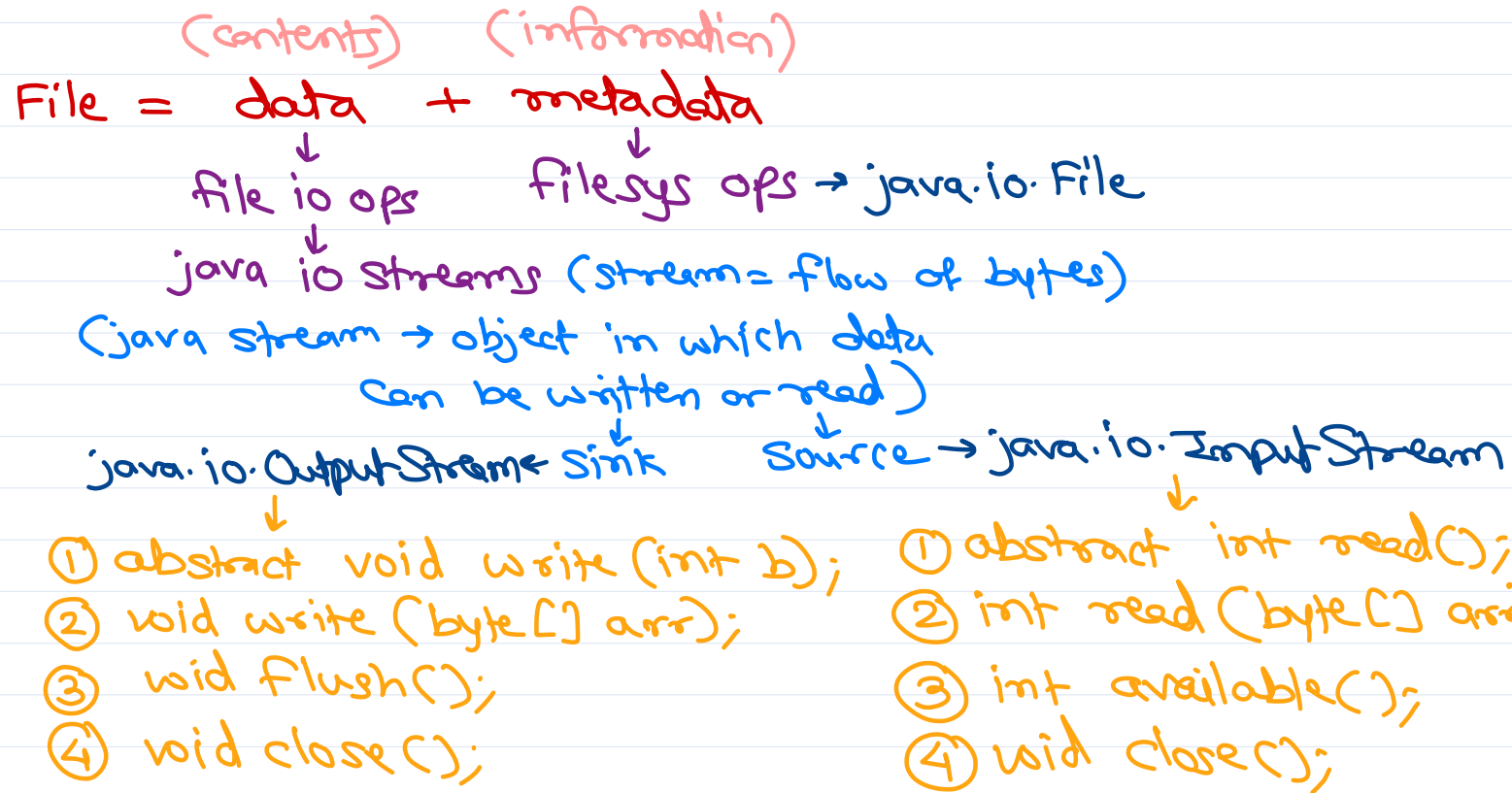
toArray() → { ele1, ele2, ele3, ele4, ele5 }

collect() → [ele1, ele2, ele3, ele4, ele5]



Collectors.toList()

Java IO



Binary Streams

java.io.Writer

- ① abstract void write(int b);
- ② void write(char[] arr);
- ③ void flush();
- ④ void close();

java.io.Reader

- ① abstract int read();
- ② int read(char[] arr);
- ③ void close();

Character Streams

Character encodings

① ASCII → 1 byte

'A' →

65

② UTF-16 → 2 byte (LE)

'A' →

65	0
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 Little Endian

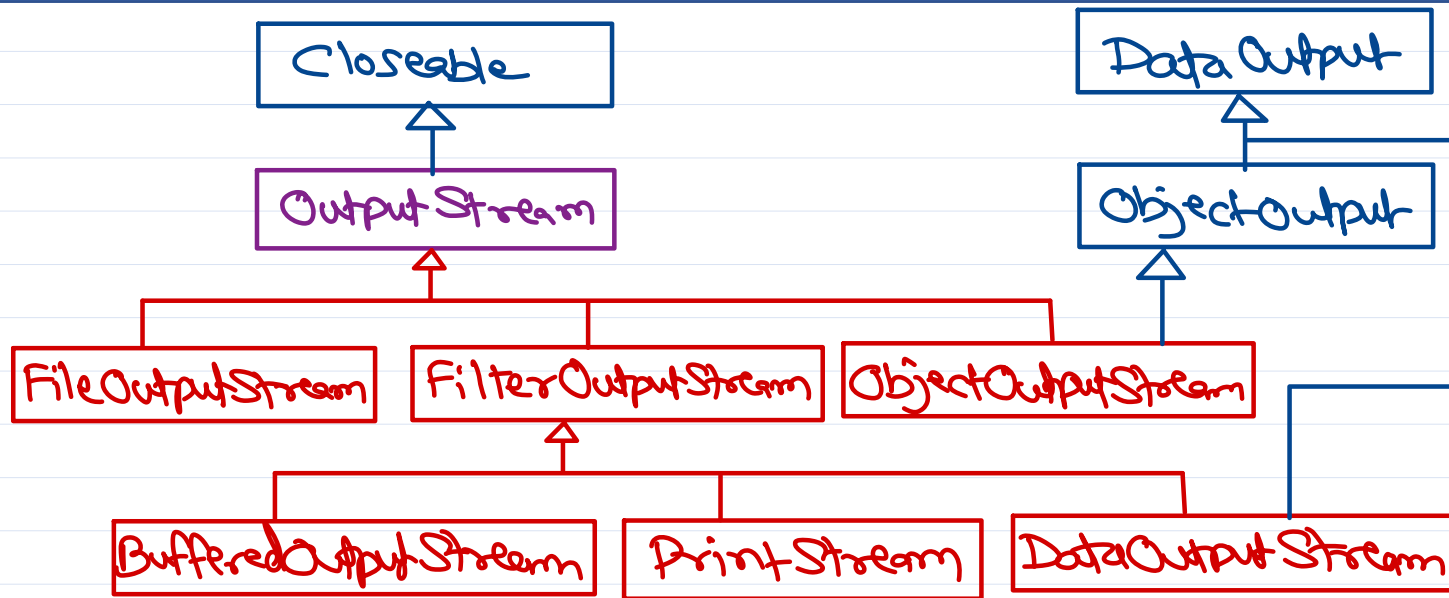
③ UTF-16 → 2 byte (BE)

'A' →

0	65
---	----

 Big Endian

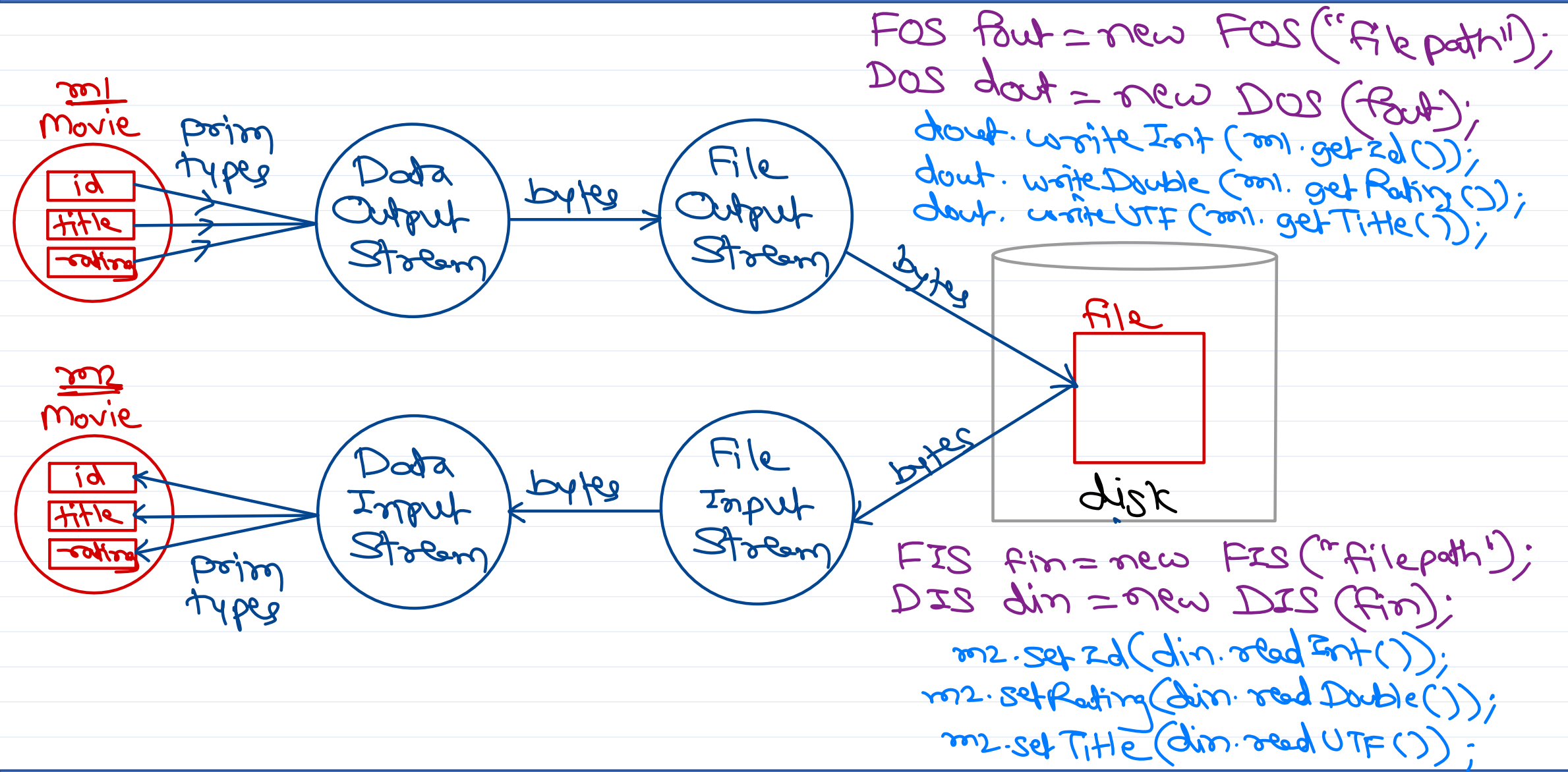




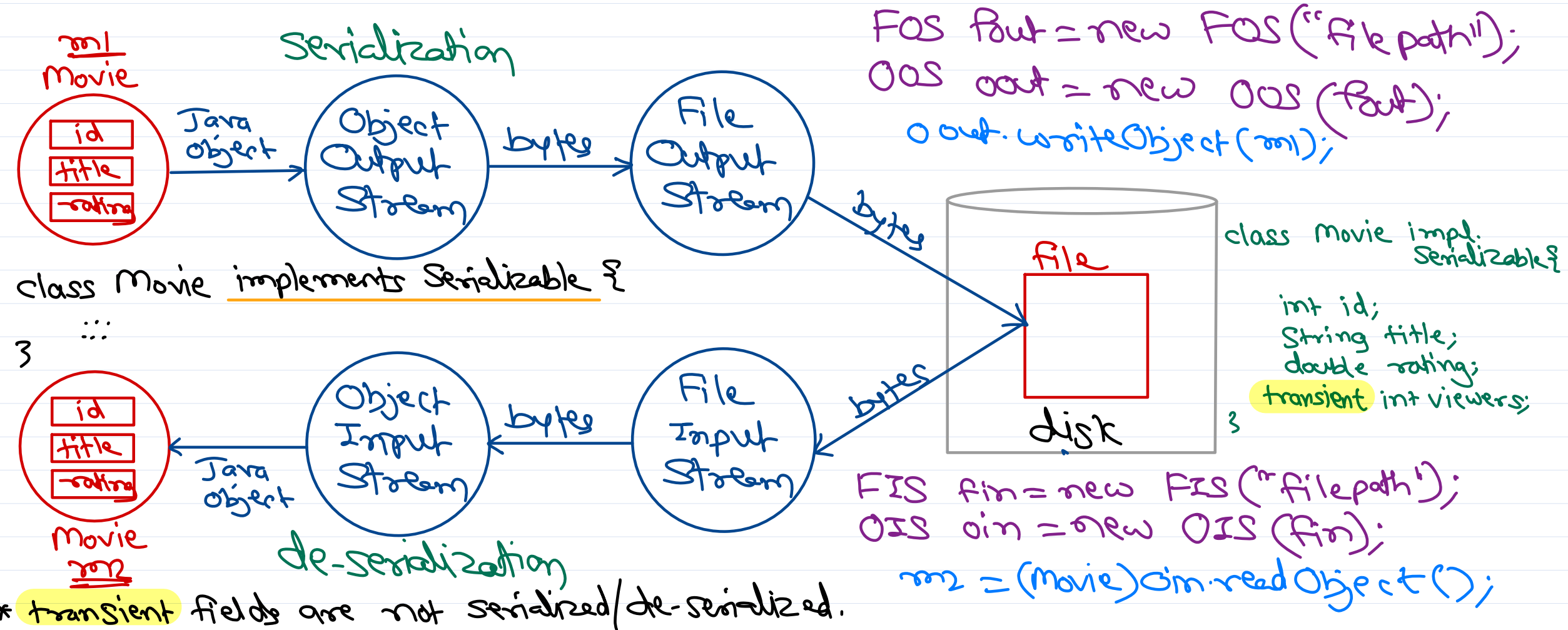
- ① bytes → `FileOutputStream` → file on storage device
- ② primitive types → `DataOutputStream` → bytes
- ③ java object → `ObjectOutputStream` → bytes
- ④ variables → `PrintStream` → formatted text
- ⑤ bytes → `BufferedOutputStream` → bytes
buffer...



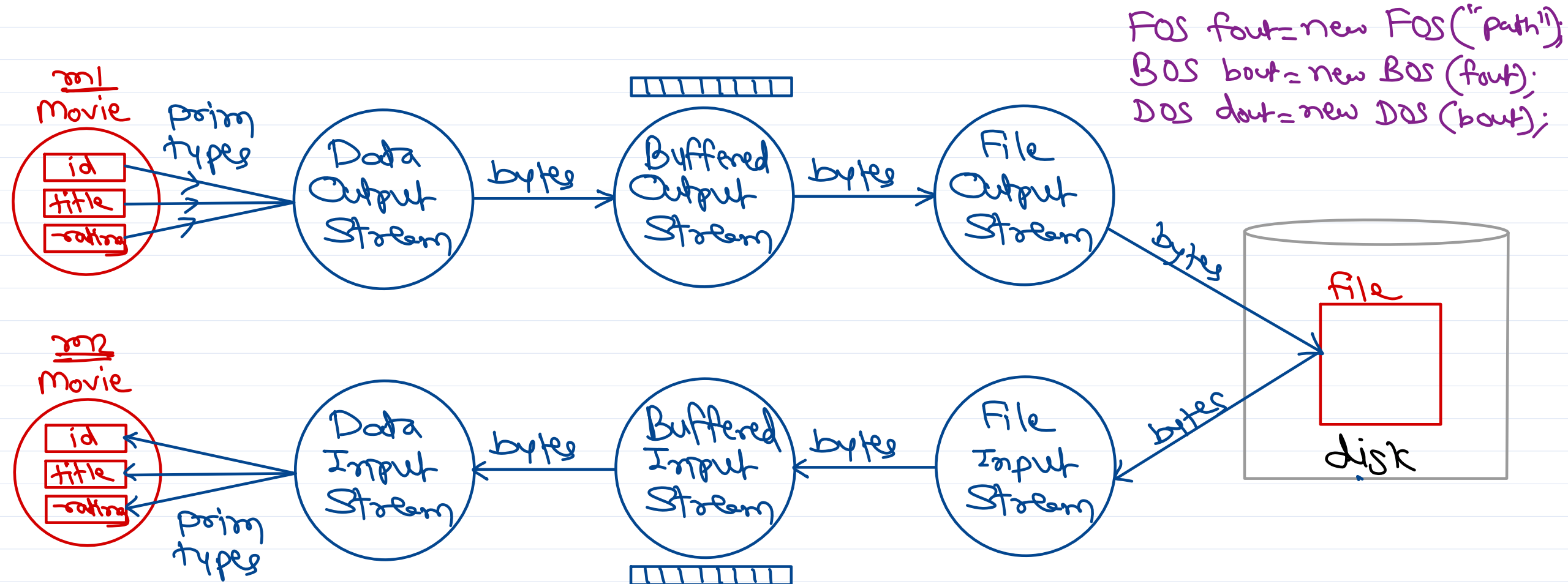
DataOutputStream and DataInputStream



ObjectOutputStream and ObjectInputStream



BufferedOutputStream and BufferedInputStream





Thank you!

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