

#### Lesson 2-3: Streams of Objects and Primitive Types

# **Objects And Primitives**

Summary

- The Java language is not truly object oriented
- Primitive types are included
  - byte, short, int, long, double, float, char
- For some situations these are wrapped as objects
  - E.g. storage in collections
  - Byte, Short, Integer, etc.
- Conversion between primitive and object representation is often handled by auto-boxing and unboxing

### **Object Streams**

Slides 3 & 4 aren't quite complete. Getting this code to compile is explained in Lesson 2-7.

ORACLE

- By default, a stream produces elements that are objects
- Sometimes, this is not the best solution

### **Primitive Streams**

- To avoid a lot of unnecessary object creation and work we have three primitive stream types
  - IntStream, DoubleStream, LongStream
- These can be used with certain stream operations

ORACLE

## **Section 3**

Summary

- Java has primitive values as well as object types
- To improve stream efficiency we have three primitive stream types
  - IntStream, DoubleStream, LongStream
- Use methods like mapToInt(), mapToDouble(), mapToLong()

