

BO7 Sept 20 Lec 1 Notes

What is Java?

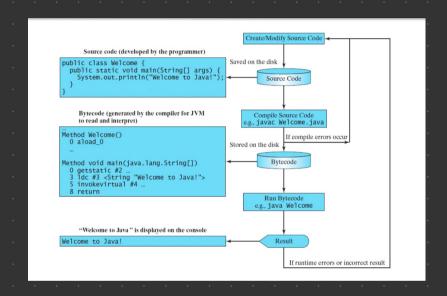
- 4 Object oriented programming.
- Write once, run anywhere
- Lo Widely used in industry.

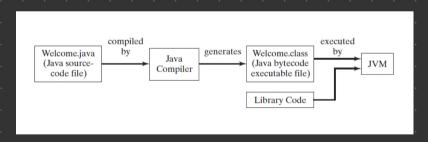
3 Main steps

- (i) Writing the source code using a text editor
- (ii) Translating the source code into Java bytecode using a compiler
 - . Byte code is Similar to machine instructions but is architecture neutral and can run on any platform.

(iii) Execute the bytecode

4 JUM is an interpreter: it translates bytecode into the target machine language code one at atime





Data Types

- La Eight primitive types:
 - Lo byte, char, short, int, long, float, double, boolean
- b Objects
 - 4 Defined using classes.
 - La Java provides wrapper classes to use primitive types as objects (e.g. Integer, Double, etc.)

Classes

- 4 A typical Java class includes:
 - 4 Data fields to represent the state of an object.
 - 4 Methods to represent the behaviour of an object
 - Special type of methods, Known as constructors

