Application Programming

Week 1

Lecture 2

Deliverables

- Java and Eclipse resources

- Review the basics of Java

- Team introductions

Discussion

- Java
- Variable
- Primitive data type
- Object
- Class
- Method
- IDE
- JRE
- JDK

Discussion

- Java
  - Object oriented
  - Case-sensitive
  - Statements end in semicolons (;)
- Variable
  - Variable names are in **camelCase**
- Primitive data type
  - int, char, float, double, boolean (all lowercase)
- Object
  - Defined by a class!

Discussion

- Class
  - Class names are **UPPERCASE**
  - `public class Test { … }`
- Method
  - `public static void main (String[] args) {...}`
- IDE
  - An Integrated Development Environment (IDE) is a software application that provides comprehensive facilities to computer programmers for software development.
- JRE
  - The Java Runtime Environment (JRE) is software that Java programs require to run correctly.
- JDK
  - The Java Development Kit (JDK) includes tools for developing and testing programs written in the Java programming language and running on the Java platform.

Memory Models

- We have watched the following videos from the Coursera course
  Object Oriented Programming in Java
  - [Core: Drawing Memory Models with Primitive Data - Memory Models, Scope, and Starting the Project | Coursera](#)
  - [Core: Drawing Memory Models with Objects - Memory Models, Scope, and Starting the Project | Coursera](#)