# Session 2 (Highlights actually made it into class)

## Development Environment

### Install Software

#### Install Java

#### Install Eclipse

#### Install Android SDK and ADT

### Java Resources

#### Book: <http://math.hws.edu/javanotes6/>

#### Java Docs : http:// j.mp/javadocs

### Java Basics

#### HelloWorld Java

#### HelloWorld Android

#### Variables

##### What are they

##### Types of variables

###### Primatives

int , float, boolean, byte, char,, short, long, double

###### References : objects

#### Objects

##### Objects

###### Nouns

##### Behaviors

###### Verbs

##### Attributes

###### Adjectives

##### Constructors

##### **this** keywords

#### Object-oriented design

##### Encapsulation

##### Inheritance

##### Polymorphism

#### Class Permissions and Access

##### Public

##### Private

##### Protected

#### Subroutines and Functions

##### Methods

###### Call stack

###### Overrides

###### scope

##### Parameters

###### Multiple parameters

#### Control

##### If then

##### While

##### Do while

##### For

##### Switch

##### Break and continue

##### Conditionals && ||

### Java Examples

#### HelloWorld App

#### HelloActivity

#### Addition

#### Comparison

#### Gradebook(s)

#### ScratchPad - break and continue