GENERAL ASSEMBLY - JAVA FOR ANDROID 02/01/2015

Download - http://git-scm.com/download/

· Note the version of operating system and version

GIT & GITHUB

- · Version control history
- qit confiq --qlobal user.name "NeelRoshania"
- git config --global user.email "nroshania@gmail.com"

Create a GIT repository

- · Staging files
 - · Changes are made and ready to save them add
 - Save all changes made commit -m 'INSERT A MESSAGE'
 - · Process of adding a repository and
 - git init create a local git repository
 - · ait add .
 - · got commit -m "message"

GIT HUB

- · Service that allows you to host git repositories
- · Allows for easy sharing of code
- · Public and private repository
 - Bit bucket

PUSH, FORKING & CLONING ON GITHUB

- Fork Make a copy of a GITHUB's user repository on your profile
 - . Use the fork button on GITHUR
- Clone Make a copy of the fork onto a local repository (aka your computer)
 - · Copy link in repository
 - ait ait clone instructorsRepositorvLink
- · Make the desired changes.
- Save changed file on a separate local repository
- · Specify folder location on terminal
 - cd desktop/localRepositorvPushFolder
- · Push to changes to the GITHUB cloud
 - git push
 - · git push -u origin master

FUNDAMENTAL OF JAVA

- 1. Install Java IDK
 - a. http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151 http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151
- 2 Install Inteli.I
 - a. http://www.jetbrains.com/idea/download/download-thanks.html? platform=mac&code=IIC

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- · Handles logic functions of app
- Fork. Clone and Pull request for share and edit data amongst other developers.

https://tlk.io/java_workshop

INTRODUCTION

- · Functions and uses
 - Portability of code across different applications
 - Used to develop Android applications
- History
 - · Write once, use anywhere.
 - · James Gosling
- Characteristics
 - · Procedural vs Object oriented programming
 - · Needs to be compiled
 - · HTML requires no compiling
 - · Compiler translates text into machine code
 - 1 and 0
 - Intelli I
 - · Write, compile and run java code any application of Java
 - · Android Studio is specific to android applications

INTELLIJ

- · Create a new project
 - Select Java
 - · Define version of Java installed
 - New...JDK
 - · Choose JDK root
 - Next
 - · Choose project name
 - OK

.

· Create a new class

- · Click "src" source folder
- · Define new class

Structure

- · Intelii shortcuts
 - "psym" "public static void main" function
- · Primitives and Objects
 - · Primitives Basic data types
 - Integers
 - · Doubles and floats
 - Strings
 - · Short, long, byte etc
 - Boolean True/false
 - Objects
 - · Collections of data structured in a certain way
 - https://docs.oracle.com/javase/tutorial/java/concepts/
 - "Identifying the state and behavior for real-world objects is a great way to begin thinking in terms of object-oriented programming."
 - You may also notice that some objects, in turn, will also contain other objects. These real-world observations all translate into the world of object-oriented programming.
 - Identify object
 - · Identify number of states
 - State at a point in time
 - · Identify behavior
 - · Methods of changing between states
 - · Software objects
 - · Stores states in variables/fields
 - · Stores

· Declaration or assignments and initialization

- Type variableName = Value:
 - int x = 12;
- · String manipulators
 - "/n" new line

· Functions/methods

- · Defined within a class
 - · Cant define methods outside of classes
 - Define whether the method assigns of exectutes
- · Save development space
- · Can make one change and effect a large set of numbers
- Characteristics
 - https://docs.oracle.com/iavase/tutorial/java/javaOO/methods.html
 - Modifiers—such as public, private, and others you will learn about later.

- The return type—the data type of the value returned by the method, or void if the method does not return a value
- The method name—the rules for field names apply to method names as well, but the convention is a little different.
- The parameter list in parenthesis—a comma-delimited list of input parameters, preceded by their data types, enclosed by parentheses, (). If there are no parameters, you must use empty parentheses.
- · An exception list—to be discussed later.
- The method body, enclosed between braces—the method's code. including the declaration of local variables, goes here.

Process

- Define method
- Call method

Booleans, operators and conditionals

- Operators
 - https://docs.oracle.com/javase/tutorial/java/nutsandbolts/ operators.html
- Conditionals
 - https://docs.oracle.com/javase/tutorial/java/nutsandbolts/op2.html
 - IF FLSE
 - if (condition) {} else {}
- Boolean
 - True or false
 - 1 or 0
 - isItraining = (3>2)
 - . True as 3 is indeed greater than 2

USEFUL FUNCTIONS/OBJECTS

- Type Scanner
 - Read information from command line
 - Scanner (Define input)
 - System.in (input from command line)
 - Need to declare following to utilize function
 - Scanner input = **new** Scanner(System.in);
 - Request String nextLine
 - Request integer nextInt
- .equals(Variable type)
 - Determines if strings or integers are unique