Java Technology Course Overview

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This is a Programming Technology Course!

- Exam   70%
- Projects   30%
  - 1 trivial homework (Homework today)
  - Four, maybe more, assignments
    - Due 1 week after each experiment
  - 1 application development
    - will be (typically) due 1 weeks before final test.

Texts

Java books (SDK 1.5 or higher) recommended:

- **Thinking in Java 4th edition.**
- Learning Java
  - – reasonable introduction to Java programming.
- Core Java(1&2)
  - – more of a reference than introduction.
- Java tutorials (available on the Web).
- Websites

Top 10 Websites for Advanced-level Java Developers

- stackoverflow.com
- dzone.com
- leetcode.com
- Java SE Technical Documentation
- Github
- Coursera
- Java World
- IBM developerWorks
- Wikipedia
- Program Creek

People

Instructor: Qiuyan Huo

- Now
  - Associate Professor
  - Software engineering institute, XIDIAN
- Before
  - JHU, 2006
  - XJTU,
    - BS 1996, Computer software
    - M.Sc 2003, Computer software and theory

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Software

- Java SDK 1.5.0 (or Java SDK6.0).
- Operating System doesn't matter!
- Your favorite text editor. (EditPlus, Sublime Text, UltraEdit…)
- Java SE 7/8(Java Software Development Kit)
- Netbeans 8
- Eclipse
- IBM RAD for WebSphere Software
- IntelliJ IDEA 14 Community Edition

Contents

- Getting SDK running.
- The Java language
- Java OOP
  - Objects in Java
  - class and inheritance
  - interface and package
  - Polymorphism
- Exception
- Numbers and String
- I/O
- Array and Collections

- Threads
- GUI Programming
  - AWT
  - Swing
  - Event Model
  - Applets
- Network Programming
- Web Programming
- JDBC
- Lambda and Stream
- *JavaFX/Java EE*

Homework

- All programming is to be done alone!
- Write your name, student#, and E-mail after every "@author"!
- *Reports needed.*
- You need to follow the instructions! (if exist)
- No debugging output (unless we ask for it)!
- Pay attention to the assignment, many projects will be graded by a program.
- Submit all your result (Stu#_HW#.zip/rar. i.e., **1413011001_HW1.rar**) to curriculum representatives(课代表).
  - (快压 is not supported)

上机实验

- 周次：4、5、12、13周
- 时间：周二下午
- 机房：G楼
  - 1413011：G330,334
  - 1413012：G346,348

- 相互沟通解决问题
- 项目验收

自己完成作业，尽量做到最好！！！

Let's start!!!