COM102 Object Oriented Programming Lab



LAB-0: INTRODUCTION

1

General Information

► Lab Instructor: Res. Asst. Arzum Karataş

▶Office: D-227

▶Office hours: Monday : 10.00-11.00 and 11.00-12.00

Tuesday : 17.00 - 17.30

▶ Email: <u>arzum.karatas@gediz.edu.tr</u>

- Lab Website: http://arzumkaratas.weebly.com/com102_2016.html
- For any general questions about the course, use my Office Hours or send me an email for having an appointment beyond office hours!

General Information (cont.)

Lab Assistant: Res. Asst. Feyza GALİP

▶Office: D-227

►Office hours: Friday 14.00-15.00

Friday 15.00 - 16.00

Email: feyza.galip@gediz.edu.tr

Outline

- Your Opinions / expectations ?
- Introduction to OOP World!
- ► Introduction to Java World?
- ▶ What is the aim of this lab?
- Lab Logistics
- ► Q&A
- Wet your feet !

Your Opinions / expectations?

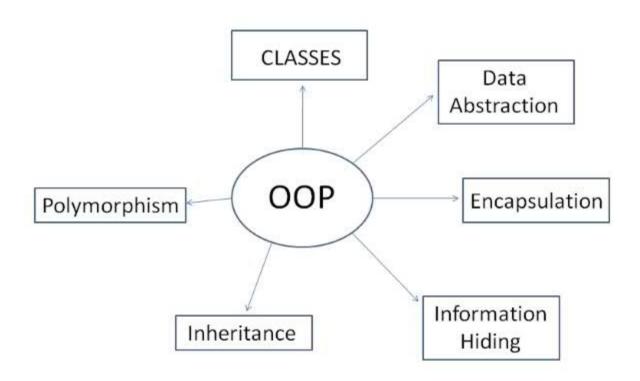


Introduction to OOP World!

- ► The basis for OOP started in the early 1960s at MIT Simula 67 project.
- Alan Kay is one of the fathers of the idea of objectoriented programming.
- ► The term "object oriented programming " was first used by Xerox PARC in their Smalltalk programming language.
- The term was used to refer to the process of using objects as the foundation for computation.
- Significant object-oriented languages include Common Lisp, Python, C++, Objective-C, Smalltalk, Delphi, Java, Swift, C#, Perl, Ruby, and PHP.



Introduction to OOP World! (cont.)



Introduction to Java World!

- Designed by James Gosling in 1995 at Sun Microsystem
- ▶ It is acquired by Oracle Corporation.
- ► It is a high level language
- ► Motto: Write Once, Run Everywhere
- It is free with GNU General Public License.
- file extension is .java
- Java name is coming from ...



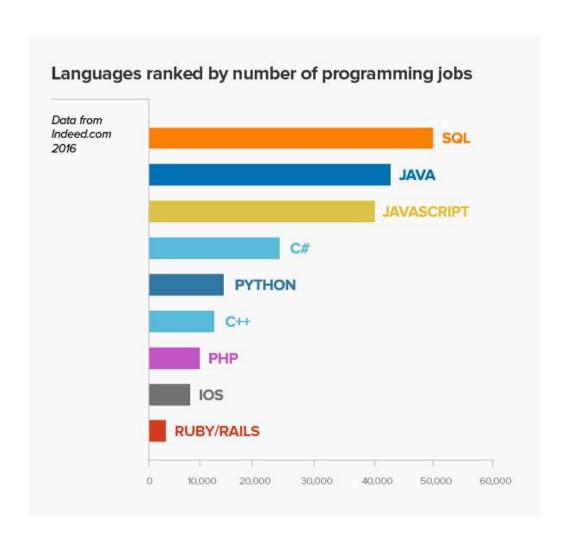
Introduction to Java World!(cont.)

Java SDKs

- Java SE (we will use it!)
- Java EE
- Java ME
- Java Embedded
- Java DB
- Web Tier
- Java Card
- Java TV

For details: http://www.oracle.com/technetwork/java/javase/downloads/index.html

Introduction to Java World!(cont.)



Aol.com
Netflix
LinkedIn
Amazon
Accenture
Oracle

2016/3/1

Introduction to Java World!(cont.)

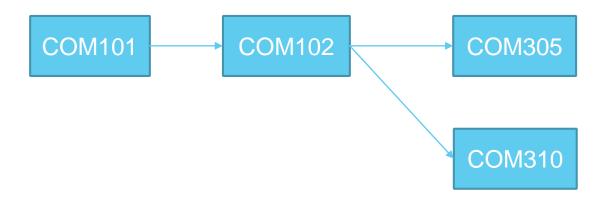
▶ Java is the language of business applications, used at basically every single financial services institution for back end systems, portals, trading systems, market engines, online banking, etc. It's the primary language of development for ecommerce (eBay, Amazon, etc.), insurance applications, etc.

What is the aim of this lab?

Practising OOP concepts by using Java language!

Lab Logistics

Course Chaining



COM 305: Object Oriented Analysis and Design

COM 310: Web Programming

Lab Logistics(cont.)

Tentative Schedule

Lab	Lab Experiments	
LAB #0	Java Eclipse IDE Installation + "Hello World" Example	
LAB #1	Introduction to Classes and Objects Coding Practices	
LAB #2	Control Statements Coding Practices	
LAB #3	Methods Coding Practices	
LAB #4	Arrays and ArrayLists Coding Practices	
LAB #5	Classes and Objects Coding Practices	
	MidTerm + Lab Midterm	
LAB #6	OOP: Inheritance Coding Practices	
LAB #7	OOP: Polymorphism Coding Practices	
LAB #8	Exception Handling Coding Practices	
LAB #9	GUI Components Coding Practices	
LAB #10	Files and Streams Coding Practices	
LAB #11	Strings, Characters and Regular Expressions Coding Practices	

Lab Logistics(cont.)

Grading for Lab

	Percent (%)
<u>PostLabs</u>	10
Lab Midterm	10
Lab Final	15
Term Project	15
Total	50



Wet Your Feet!

► Lab-0 Basic Setup ...

