Object-Oriented Programming - OOP

Why should you study Java?

- **Top ten common programming languages:**

Jul 2018	Jul 2017	Change	Programming Language	Ratings	Change
1	1		Java	16.139%	+2.37%
2	2		C	14.662%	+7.34%
3	3		C++	7.615%	+2.04%
4	4		Python	6.361%	+2.82%
5	7	^	Visual Basic .NET	4.247%	+1.20%
6	5	v	C#	3.795%	+0.28%
7	6	v	PHP	2.832%	-0.26%
8	8		JavaScript	2.831%	+0.22%
9	-	^^	SQL	2.334%	+2.33%
10	18	^^	Objective-C	1.453%	-0.44%

From http://www.tiobe.com/index.php/content/paperinfo/tpci/index.html

Why Java?

- Java is Architecture Neutral (i.e. platform independent).
- Java Provides “One-Stop Shopping” (customers can get all they need in just "one stop").
- Java is Object-Oriented from the Ground Up.
- Java is an Open Standard.
- Java is Free!

Instructor introduction

Name:

Contacts:

- Email:
- Mob:

Group online:

Course Overview

- **Prerequisite**:
  - Programming Fundamentals Using C

Contents

- Introduction to Java programming language
- Classes and Objects
- Arrays and Strings
- Exception Handling - Files and IO
- Encapsulation
- Inheritance and Polymorphism
- Generics và Collections
- Thread in Java
- GUI and Event handler programming

Course Requirements

- Following lessons in classroom
- Reading textbook and documents at home (online)
- Doing all exercises at home
- should bring your laptop to class for short exercises

Grading policy

- Must attend at class
- Evaluating
  - Attendance marks (AD, 10%)
  - workshops for L1 (20%) and L2 (20%) (online and at class)
  - Final Exam (FE, 50%)
  - Total score = 10%(AD)+20%(L1)+**20%**(L2)+**50%** (FE)