

Teacher: **Mohsen Ramezani**

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References: Java tutorial (can be downloaded from the webpage).

Persian reference: "آموزش گام به گام برنامه نویسی به زبان جاوا- جعفر نژاد قمی".

Projects and Homeworks will be uploaded on the LMS (lms.uok.ac.ir) every Thursday.

Evaluation: **30%** Midtern+**30%** final exam+**40%** projects.

Session No.	Week	Topic
Session 1	1	Introduction to Advanced Programming
Session 2	1	Introduction to Java+Programming with Java
Session 3	2	Variables+Strings in Java
Session 4	2	Relations in Java (computational and ...)+Rings+Conditions
Session 5	3	Functions in Java
Session 6	3	Functions in Java
Session 7	4	Utilizing public variables
Session 8	4	Implementing some sample programs+Mathematical relations
Session 9	5	Introduction to Object Oriented programming
Session 10	5	Implementing sample object-oriented programs
Session 11	6	Object-Oriented+Inheritance
Session 12	6	Implementing educational system
Session 13	7	Implementing educational system (2)
Session 14	7	How to create simple menu for a program+implementing OO program sample
Session 15	8	Introduction to Exceptions+Sample programs
Session 16	8	Exception Handling+Implementing sample programs
Session 17	9	Introduction to Thread+Multi-threading in Java
Session 18	9	Using Multi-threading in java (Sample programs)
Session 19	10	Midterm
Session 20	10	Overview+implementing sample games in java
Session 21	11	Implementing sample games in java using multi-threading
Session 22	11	Introduction to GUI+Java GUI classes+Implementing sample programs using swing class
Session 23	12	Implementing a java GUI form with different GUI elements
Session 24	12	Introduction to Events+Utilizing objects of AWT class in the implemented GUI
Session 25	13	Implementing a graphical stop-watch
Session 26	13	Implementing sample graphical game
Session 27	14	Introduction to I/O in Java+implementing sample program
Session 28	14	Utilizing I/O reader and writer in a before implemented project
Session 29	15	Re-implementing a before implemented game using GUI, Events, and I/O which can be saved and restored several times.
Session 30	15	Overview