

## CMPE 273 – Enterprise Distribution Systems

Programming Homework: JavaScript, HTML5 and Java Assignment Due

Date: 11<sup>th</sup> September 2016

This assignment covers basics of JavaScript, HTML5 and Java to serve as a refresher for this course. This assignment is graded for **25 points** and is an individual effort (e.g.: No teamwork allowed)

Do not use google to search for the problems and copying other's work is not allowed

You have to come up with one programming question for each of the topics mentioned below and use Eclipse IDE to solve them.

**Screenshots must be provided for the output of the problem, using Eclipse IDE. Points will be deducted if output is shown in the browser**

Be creative in coming up with the programming questions

**Your report must contain the following for each question:**

- **Introduction to the topic**
- **Programming Question**
- **Code**
- **Output of Execution (Screenshot)**

### **JavaScript:**

- Variables
- Objects
- Functions
- Events
- Arrays
- Inheritance
- Conditions
- Regular Expressions
- Strict mode
- Errors
- Type Conversions
- JSON

### **HTML5:**

- Local Storage
- Media (Video and Audio)

- Input Type (make use of different input property options in HTML5 like patterns, autofocus, required, email etc. Place types you want, mention the properties used in your Introduction to Topic section) – 3 points
- Geolocation

**Java (Use JUnit Framework for testing the application):**

- Queues
  - Stacks
  - Arrays
  - Interfaces
  - Collections
  - Generics
  - Multithreading
1. **Create a 1-minute video, explain Collections and Multithreading assignment in the video. Upload the video on YouTube and submit the link for the video in the MS word document.**
  2. **Create a GitHub project for the homework, submit the link in the MS word document.**

**Submissions must be one Canvas with one MS Word file as submission. Do not wait until the last minute on the due date, as canvas servers lag or delays may result in late submissions.**