

ITIS/ITCS 4180/5180 Mobile Application Development  
Homework 1

---

**Basic Instructions:**

1. In every file submitted you **MUST** place the following comments:
  - a. Assignment #.
  - b. File Name.
  - c. Full name of all students in your group.
2. Each group should submit only one assignment on behalf of all the other group members.
3. Your assignment will be graded for functional requirements and efficiency of your submitted solution. You will lose points if your code is not efficient, does unnecessary processing or blocks the UI thread.
4. Export your Android project and create a zip file which includes all the project folder and any required libraries.
5. Submission details:
  - a. Compress the contents of your project folder. The file name is very important and should follow the following format: **GROUP#\_HW1.zip**
  - b. Only one group member is required to submit on behalf of the whole group.
  - c. You should submit the assignment through Canvas: Submit the zip file.
- 6. Failure to follow the above instructions will result in point deductions.**

## **Homework 1 (100 Points)**

### **Question 1 (40 Points)**

Using the same Data.users array given in the class assignment 1. You are asked to perform the following tasks:

1. Your implementation for this question should be included in MainPart4.java file.
2. The goal is to find the most popular state that the users live in.

### **Question 2 (60 Points)**

In this question you will use the Data.users and Data.otherUsers arrays that include a list of users. You are asked to perform the following tasks:

1. Your implementation for this question should be included in MainPart5.java.
2. The goal is to print out the users that exist in both the Data.users and Data.otherUsers. Two users are equal if all their attributes are equal.
3. Print out the list of users which exist in both Data.users and Data.otherUsers. The printed list of users should be sorted by state in descending order.