**Homework 4: practices permission, API, library**

**Assignment Description:**

For this fourth assignment, we'll practice three basic concepts of android, how to give permission to sensitive resources(e.g, camera), how to call API, and how to use the library in android. You can follow my lectures and utilize the provided codes.

If you want help, please feel free to show your code to others or ask for help in our online discussion forum. If you work on your solution for a few hours and are still not done, you can turn it in, and we will award you credit. You can do it!

**In order to complete this activity, you need to take following steps:**  
1. You will need to create a project named SecNo\_HW4\_YourName in android studio.

2. Create three buttons in MainActivity with name, API, Permission, Library, then go to corresponding activities once click on each button. You should have a back button in all secondary Activities.

3. If you click the API button, you will go to APIActivity. Here, you will implement the API call. You can get a lot of API on the internet. Just call one API and show the data in list/spinner/toast

4. If you click the Permission button, you will go to PermissionActivity. Here, you will implement the code to give permission to Camera resources.

5. If you click the Library button, you will go to LibraryActivity. Here, you will implement the code of using any android library. Feel free to use any library you want.

**Submission and Grading:**

This homework will be due on **May 13 11:59 pm**. The students with **DSS** will get extended time according to university policy.   
  
For uploading the project, you have to follow two steps:  
1. make src folder as zip and upload it to cougar course.   
2. Upload your full android project in this link. First make SecNo\_HW4\_YourName as zip, then upload in the google form. You have to login to the gmail account to upload files here.   
  
Submit full code here:<https://forms.gle/bHBqpWVGqiJ5SpCdA>

Your submission will be graded quickly by simply running it and evaluating its functionality. It does not need to be perfect or bug-free to receive the **partial** credit. Your code will not be graded on style, but we still encourage you to follow good overall coding style for your own sake.   
  
**If you have any confusion, please raise this issue before the class. I will try to clarify as much as possible.**