**Homework 1**

Accelerometer: measure force of 3-D object on phone

Gyroscope: Angle velocity. Measure angular motion – measure in term of the angle

Compass: measure the force apply on N-S-E-W

These 3 are hardware sensor

Goal: to determine 3-D orientation (defined by the 3 angles--- have to do more research on this) using these 3 tools. How to calculate it

Task: - The research how to attract data from these

Idea:

Maybe have a service that collect all the raw data in the background

Understand java generic vs. template: Java wants to resolve in run time

Architecture:

* Need to be able to access to the data on the background
* User interface: 3 text views (display the orientation) and a button (call on bounded service)

Activity -> service(collect all the info from 3 tools) ->

Could use gravity to calculate the orientation.

Using Senor instead of Location.

Activity | sensors -> accelerometer/gyroscope/compass