

# CS5551 – Advanced Software Engineering

Dr. Yugyung Lee

## Assignment# 8

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**Task:** Develop a Mobile application using Ionic Framework and write atleast three Unit test cases using Jasmine.

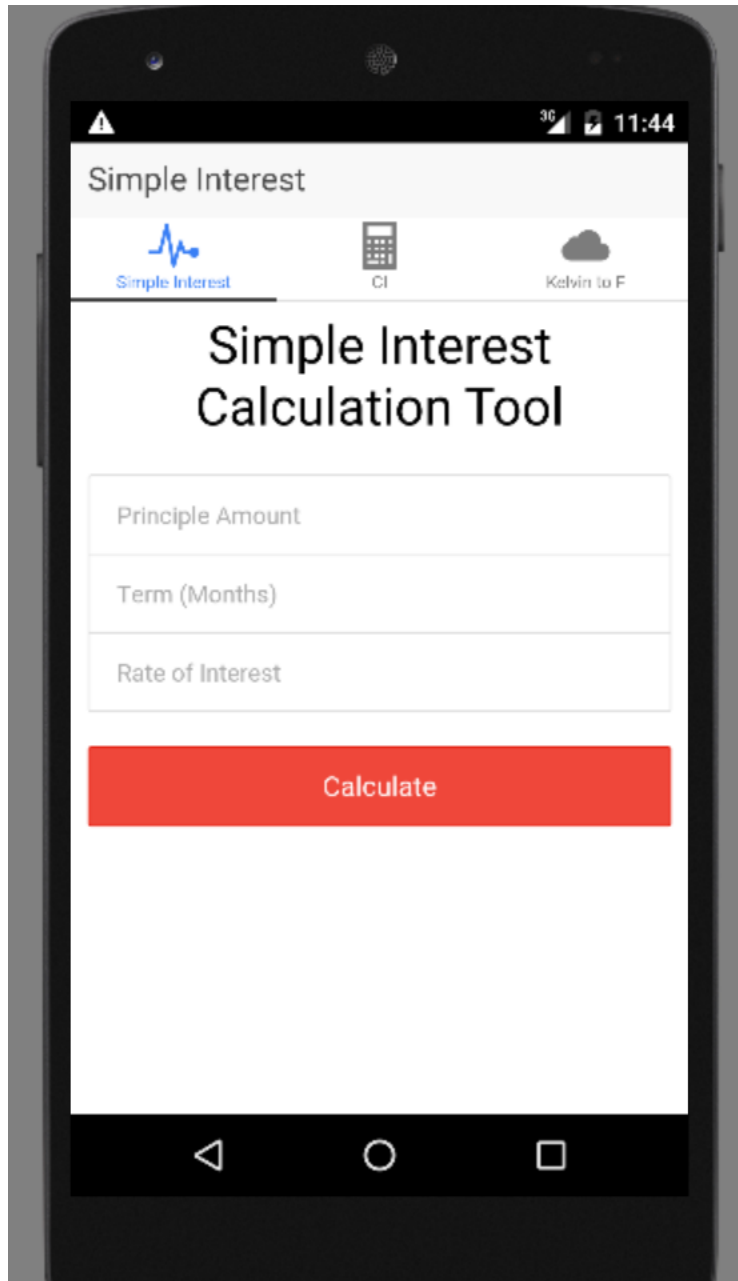
### Steps:

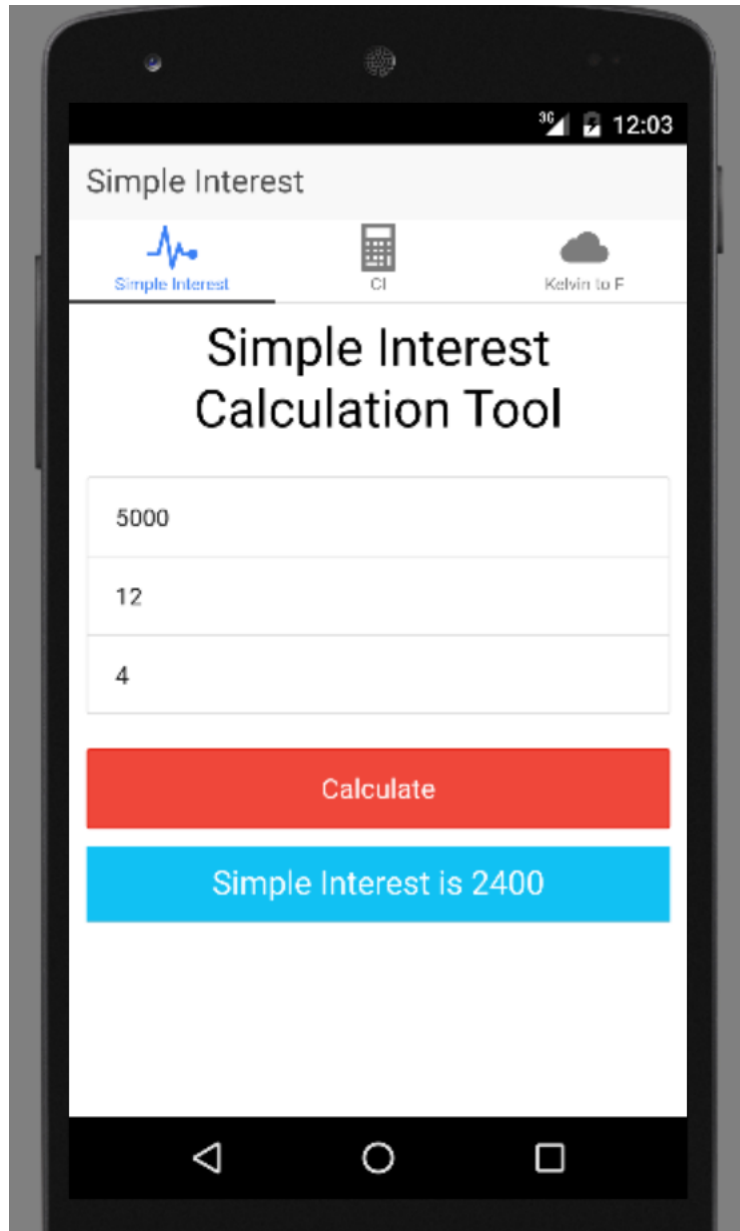
1. All the prerequisites like Nodejs, Ionic, Android Studio are installed.
2. An Ionic app is initiated using the command: ionic start ConversionApp tabs.
3. Existing Lab Assignment 6 RESTful services are modified a bit, so that they respond back by sending JSON data not XML.
4. \$http is used to make calls to the services developed in Java. IP Address of the Computer is used, instead of localhost as using IP Address can give us the flexibility to run the application on a virtual device also.
5. Test cases for Simple Interest, Compound Interest, Kelvin to Fahrenheit, Kelvin to Celcius are written and executed using Karma.

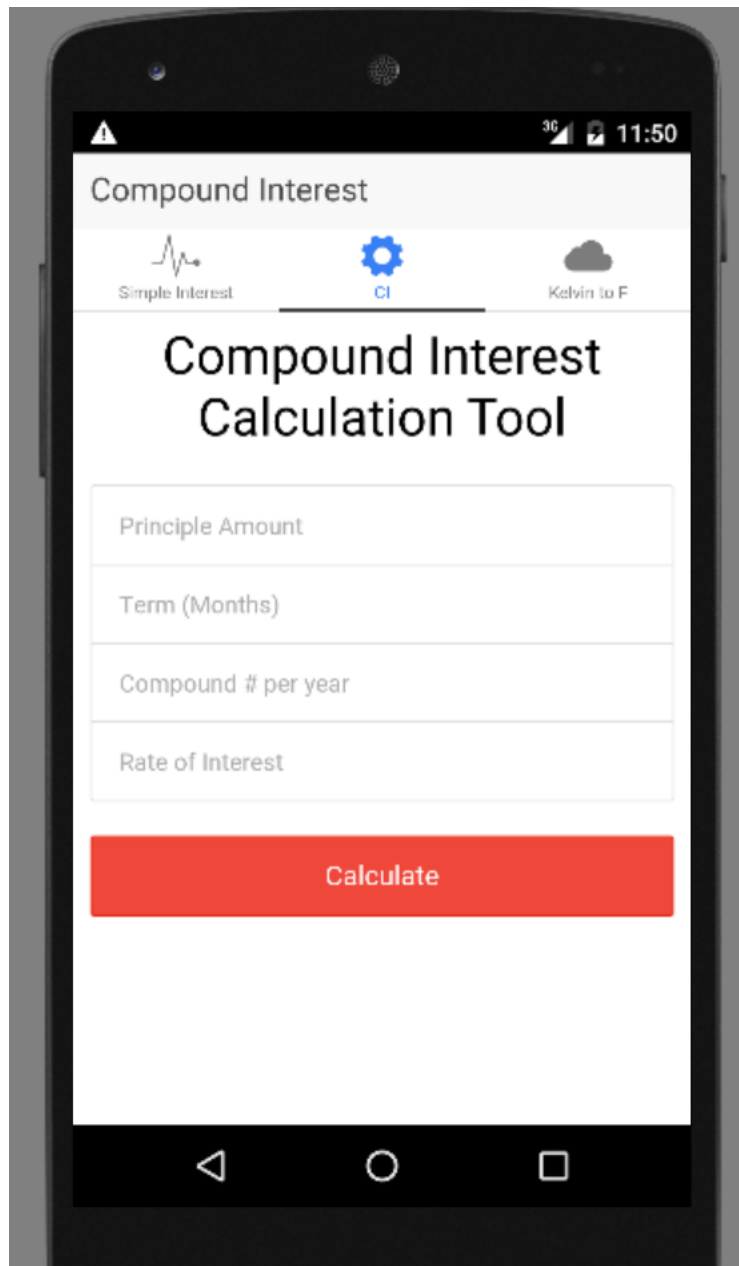
### Screenshots

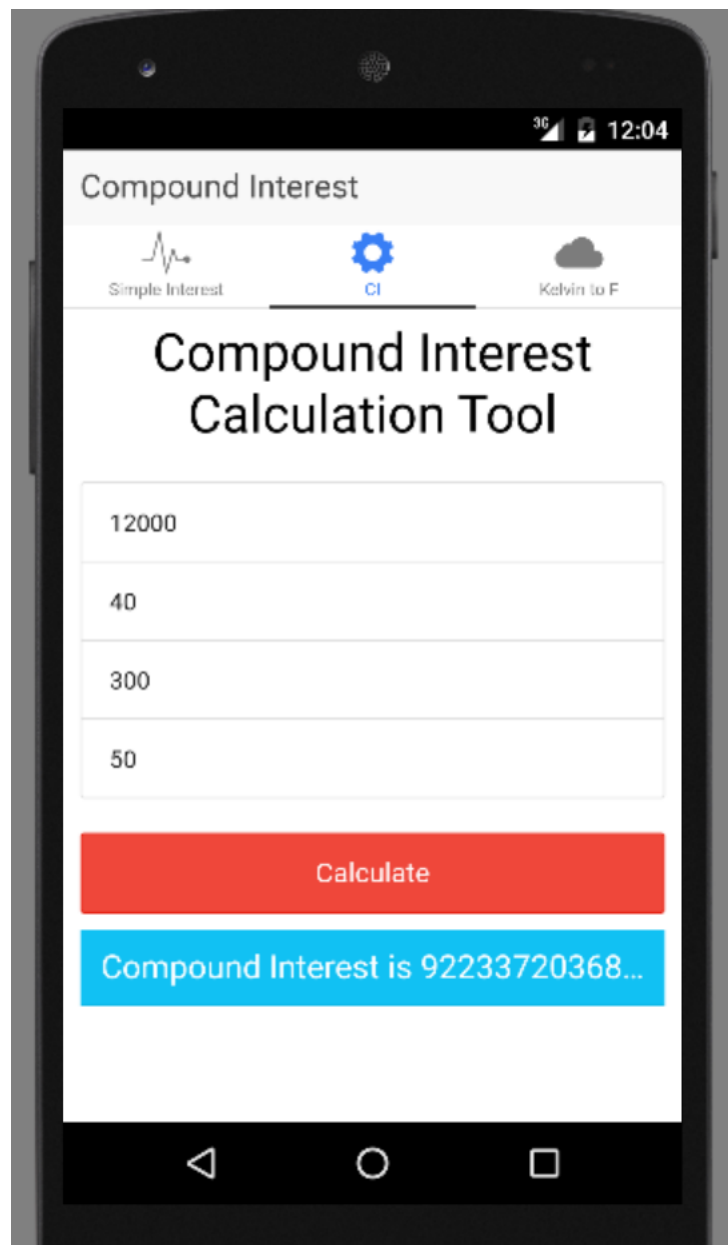
### Test Cases

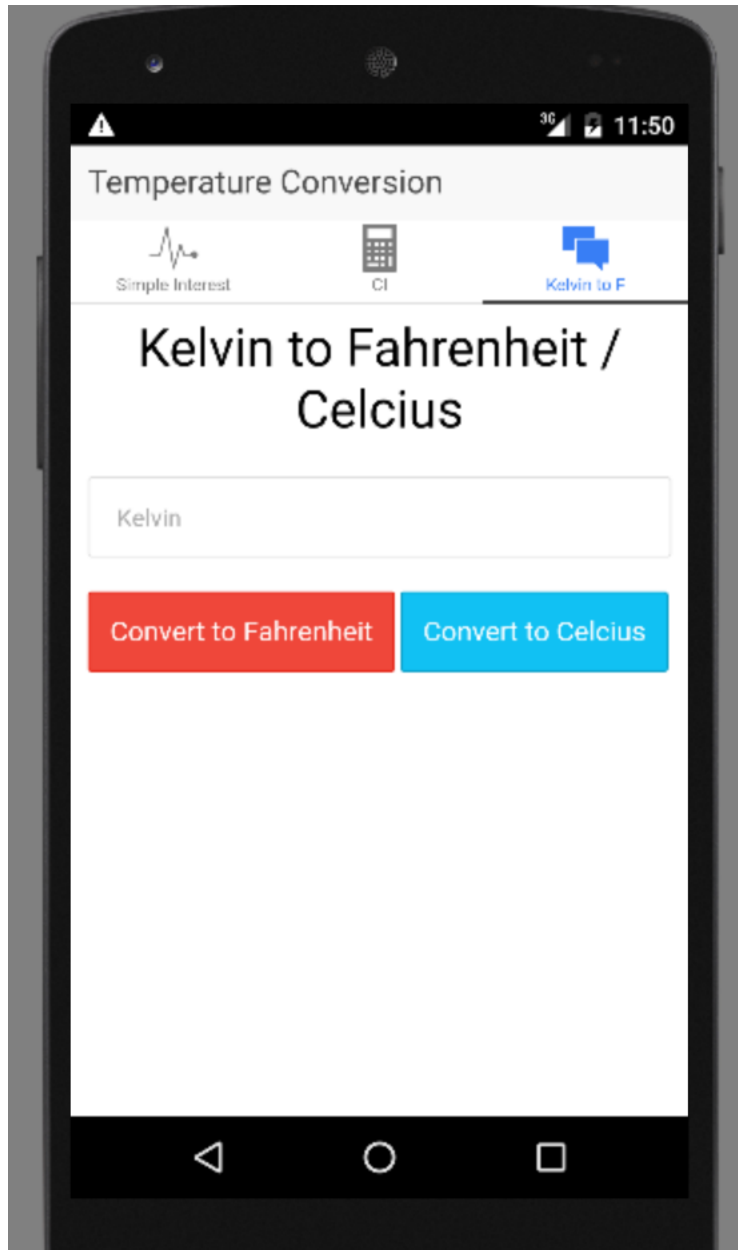
```
C:\Users\pragn\Desktop\ConversionApp>karma start karma.conf.js
16 03 2016 23:05:51.639:WARN [watcher]: Pattern "C:/Users/pragn/Desktop/ConversionApp/www/lib/platform/platform.js" does not match any file.
16 03 2016 23:05:51.645:WARN [watcher]: Pattern "C:/Users/pragn/Desktop/ConversionApp/js/*.js" does not match any file.
16 03 2016 23:05:51.682:WARN [karma]: No captured browser, open http://localhost:9876/
16 03 2016 23:05:51.692:INFO [karma]: Karma v0.13.22 server started at http://localhost:9876/
16 03 2016 23:05:51.700:INFO [launcher]: Starting browser Chrome
16 03 2016 23:05:53.002:INFO [Chrome 49.0.2623 (Windows 10 0.0.0)]: Connected on socket /#IsyKwYrApaqAkipEAAAA with id 61874703
Chrome 49.0.2623 (Windows 10 0.0.0) AccountCtrl Checks Compound Interst Calculation FAILED
    Expected 2.251875390625e+36 to equal 8032.
    at Object.<anonymous> (C:/Users/pragn/Desktop/ConversionApp/www/tests/ci-test.js:15:49)
Chrome 49.0.2623 (Windows 10 0.0.0) ChatsCtrl Checks Kelvin to Celcius Conversion FAILED
    Expected 26.850000000000023 to equal 26.85.
    at Object.<anonymous> (C:/Users/pragn/Desktop/ConversionApp/www/tests/ktoc.js:12:40)
Chrome 49.0.2623 (Windows 10 0.0.0): Executed 4 of 4 (2 FAILED) (0.099 secs / 0.036 secs)
```

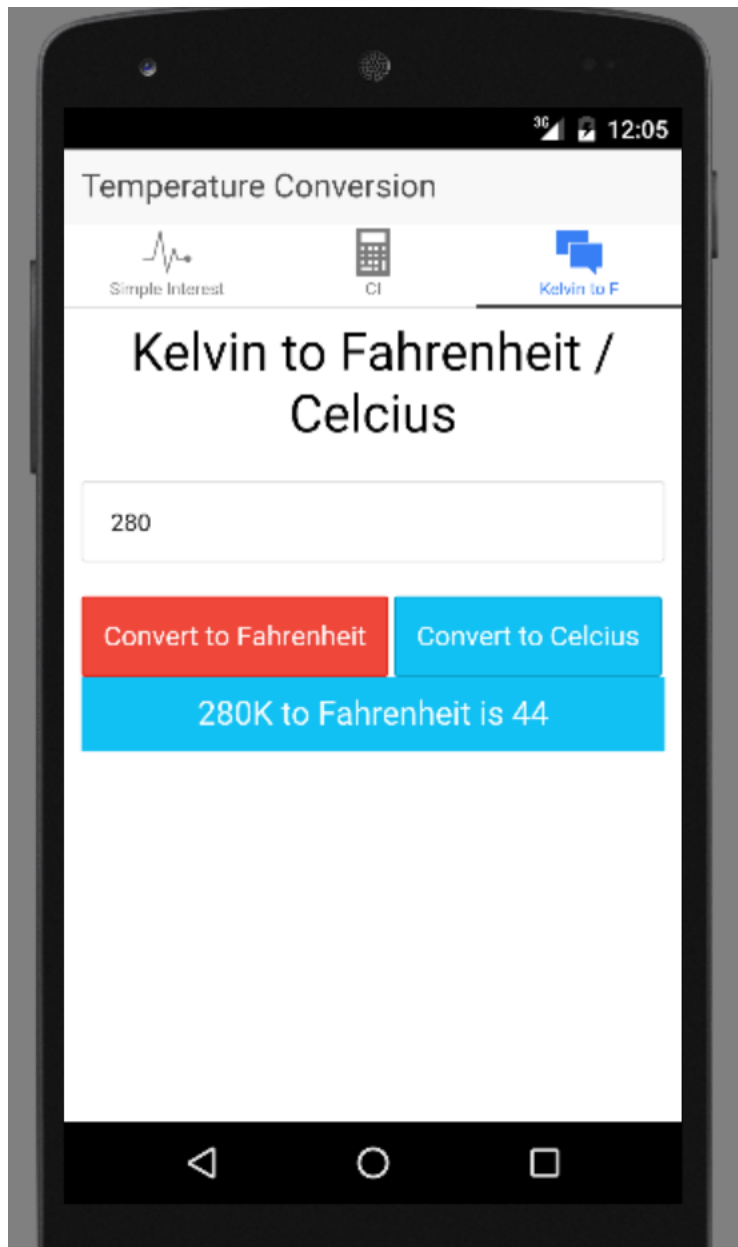


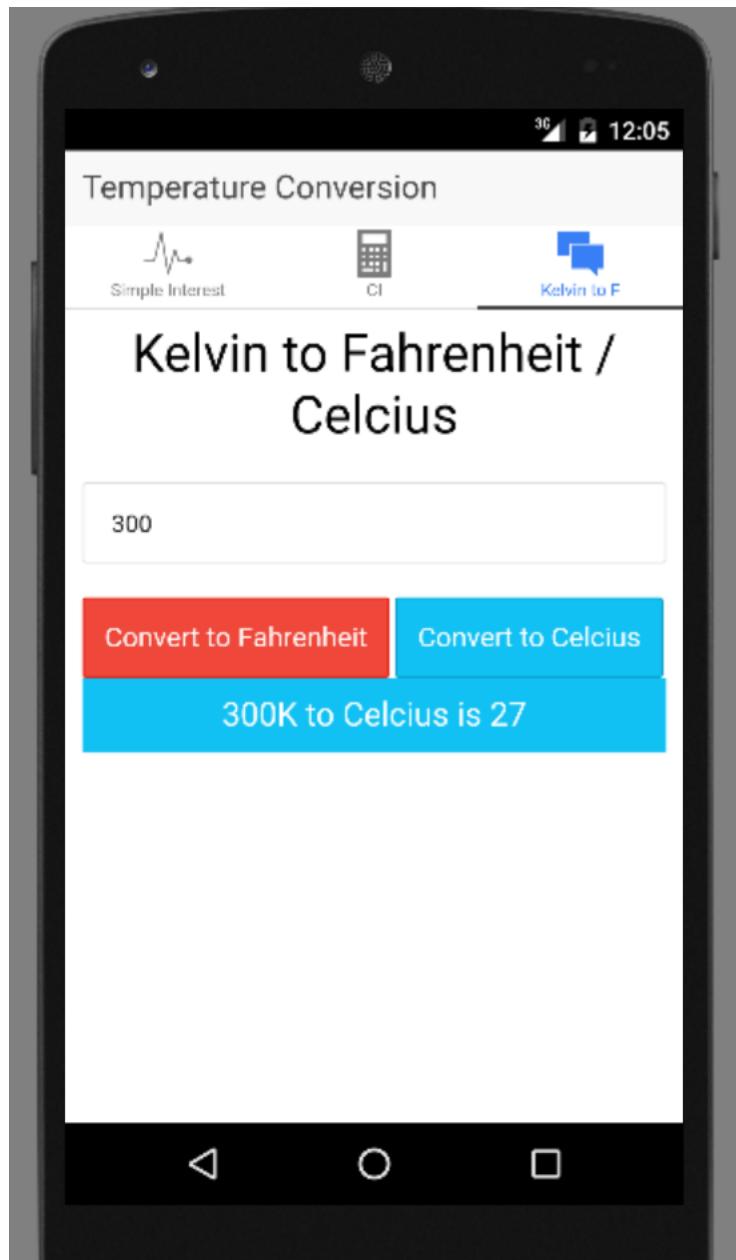






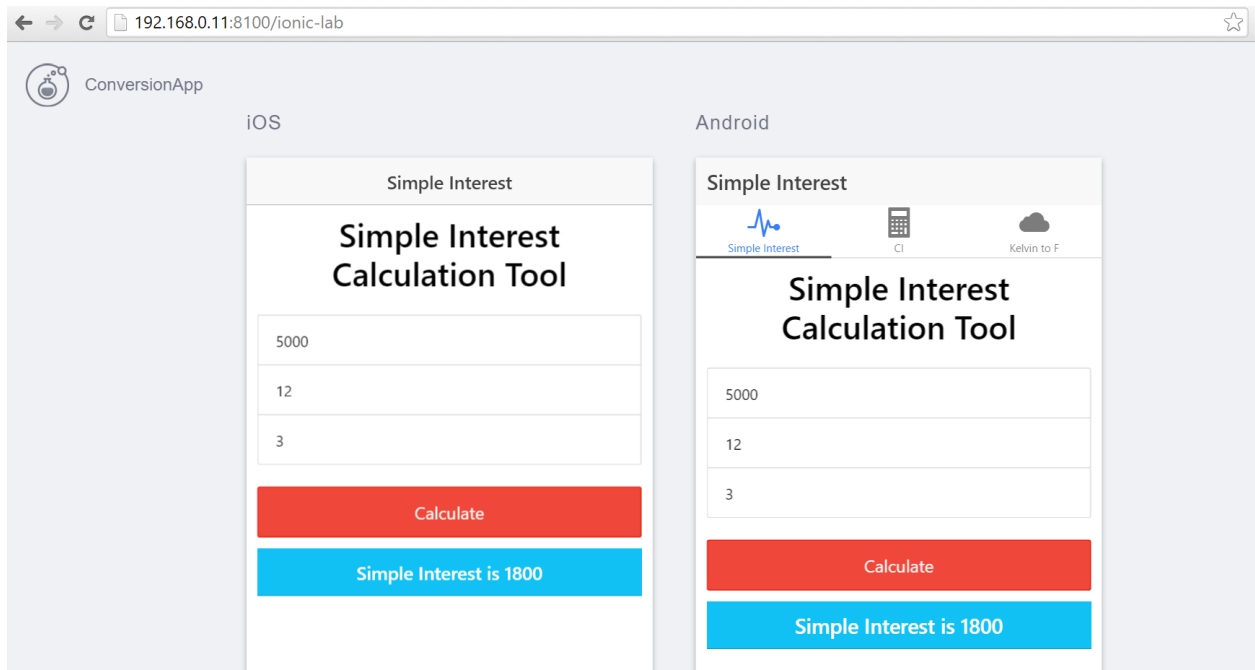








## Ionic lab



## Using Ionic serve

Simple Interest Calculation Tool

5000
12
5

Calculate

Simple Interest is 3000

Compound Interest Calculation Tool

994994
923
32
12

Calculate

Compound Interest is 9776000

Kelvin to Fahrenheit / Celcius

300

Convert to Fahrenheit

Convert to Celcius

300K to Celcius is 27



Simple Interest



CI



Kelvin to F

Temperature Conversion

Kelvin to Fahrenheit / Celcius

300

Convert to Fahrenheit

Convert to Celcius

300K to Fahrenheit is 80



Simple Interest



CI



Kelvin to F