**LAB ASSIGNMENT 2**

**R Project**

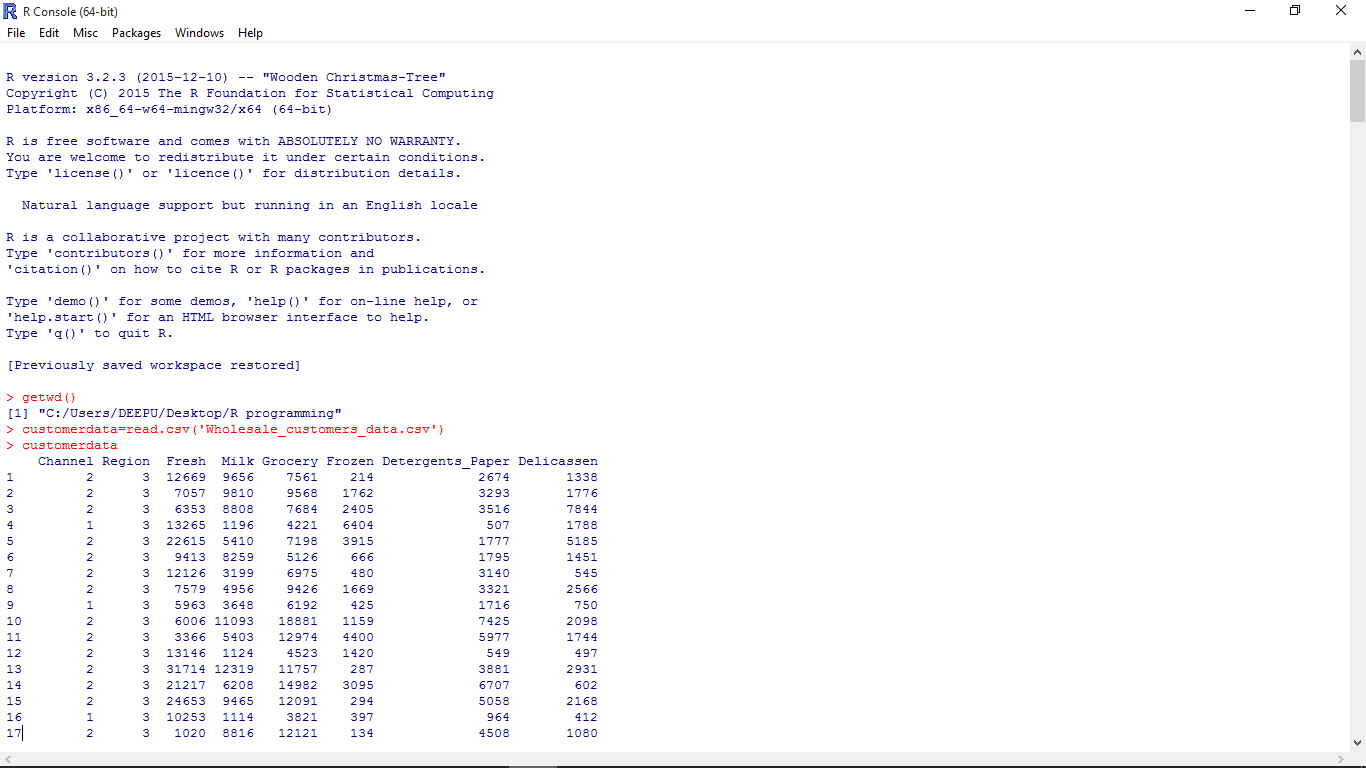
Prepare a dataset and perform k-means clustering.

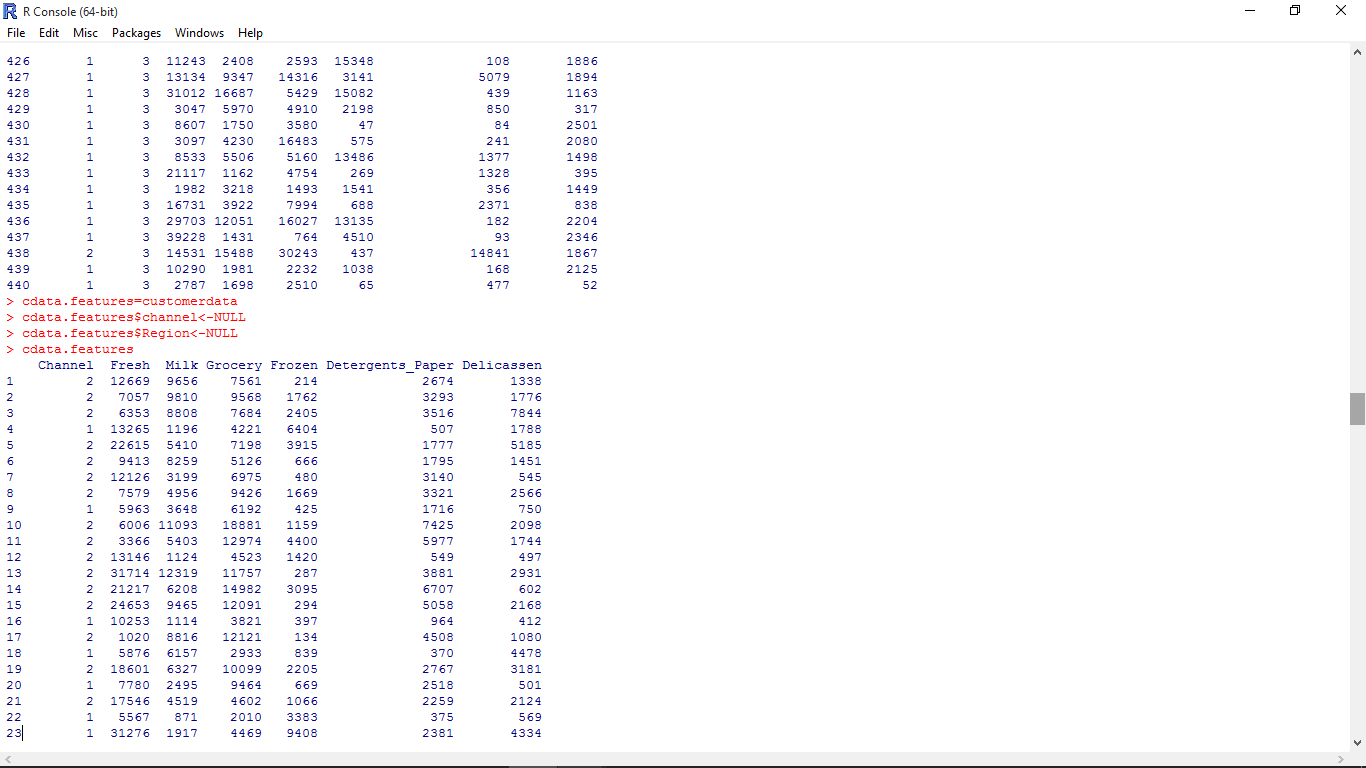
**A**.

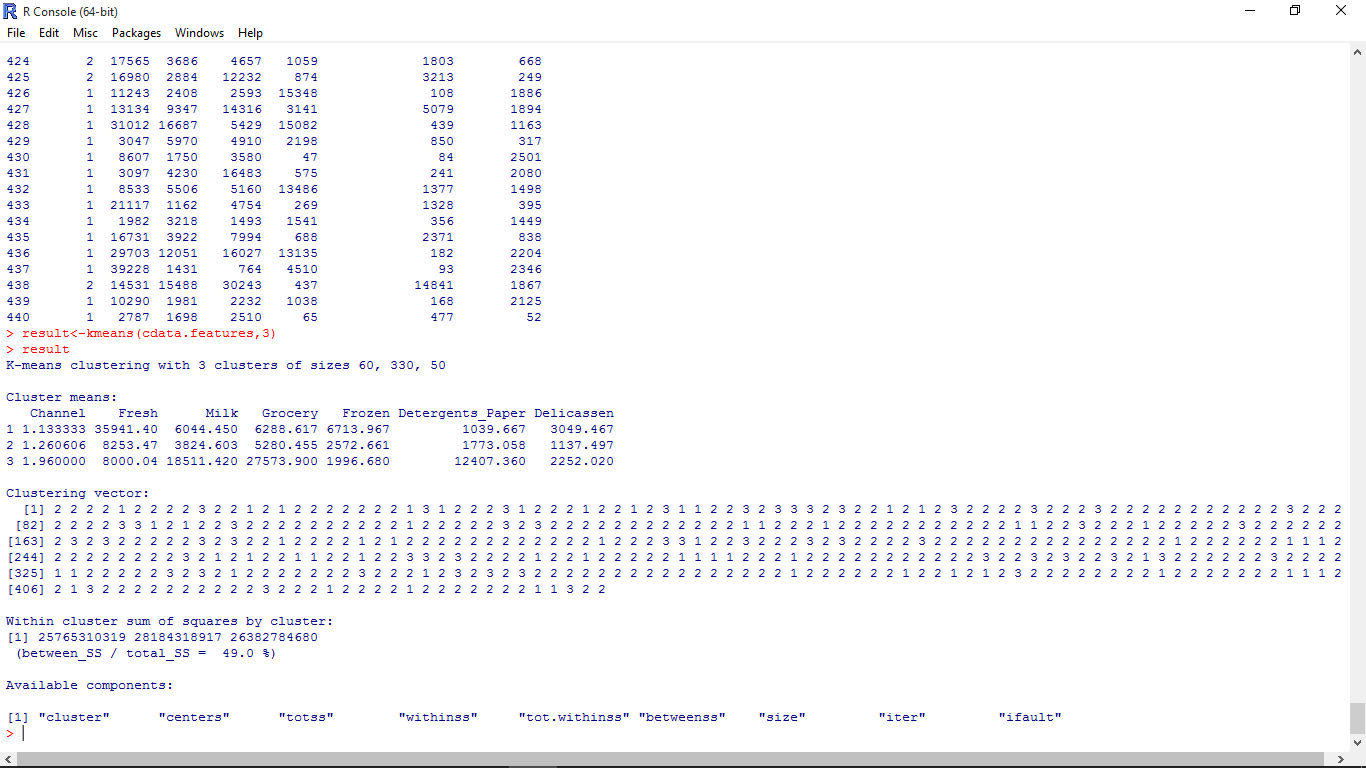
**Description**: K-means cluster partitions the data with N observations into K clusters in which the observations belong to the cluster with nearest mean, which serves as a prototype for the cluster.

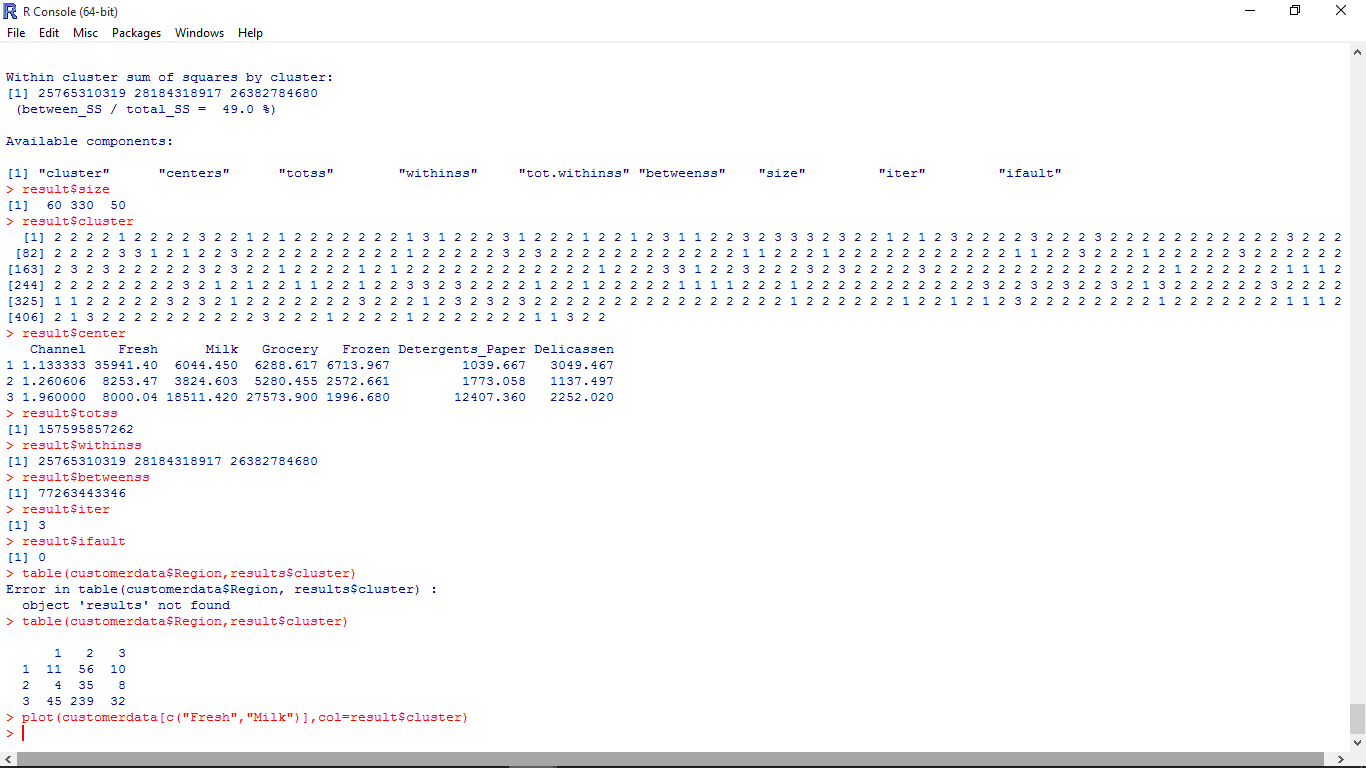
The K means clustering is performed on whole sale customer’s data. The results are shown below.

**Screen shots**:

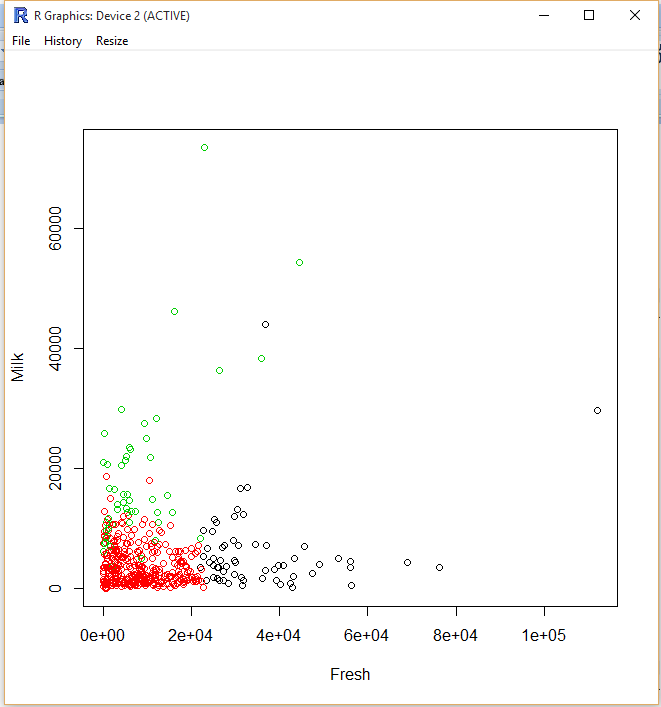
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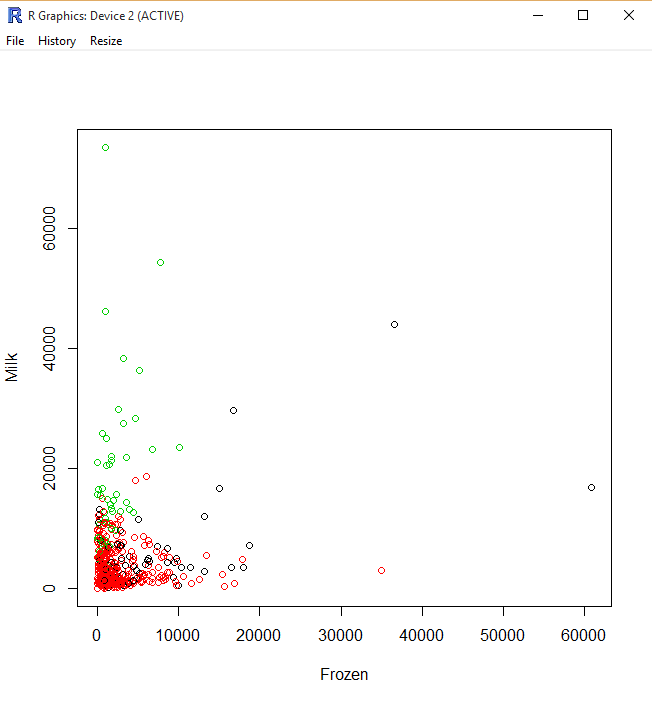
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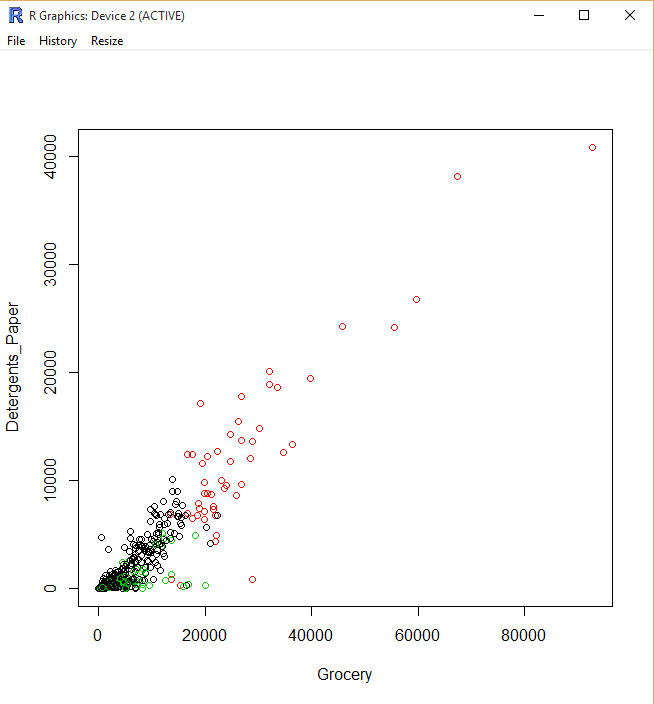
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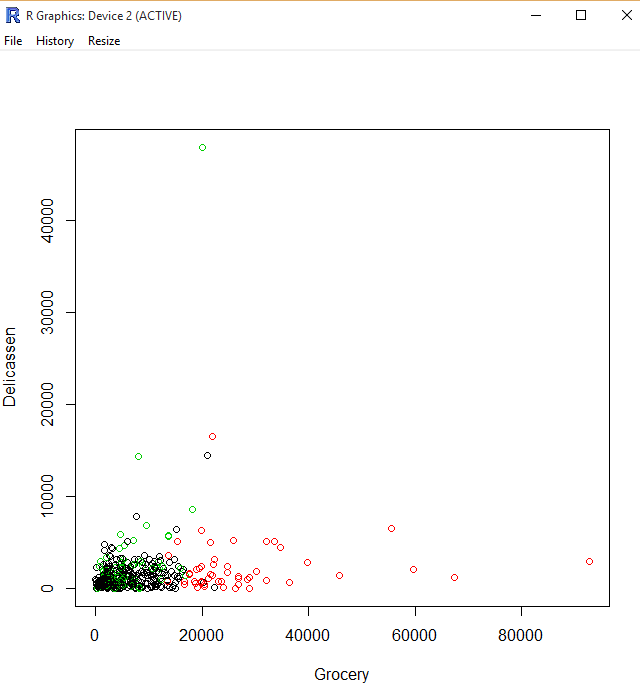
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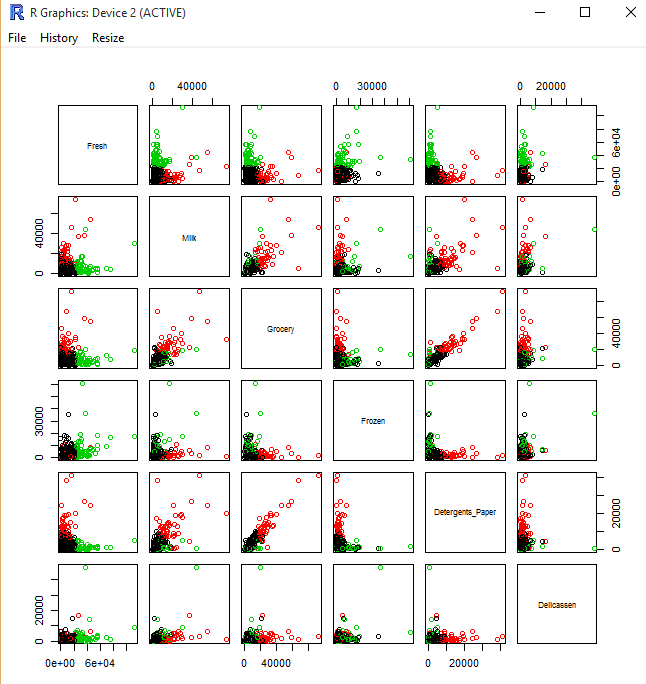
The three different colors in the plot indicate the regions 1, 2, 3.

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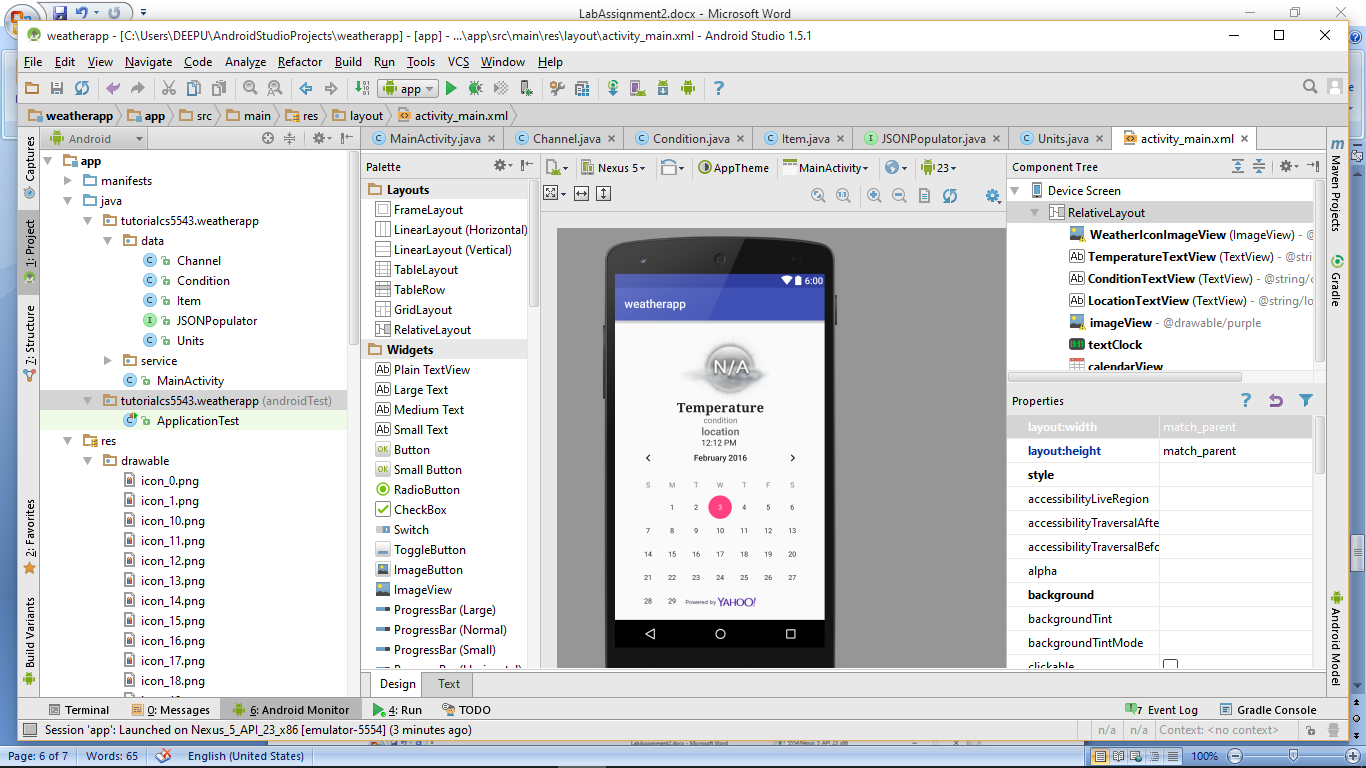
**RoboMe and Watch App**

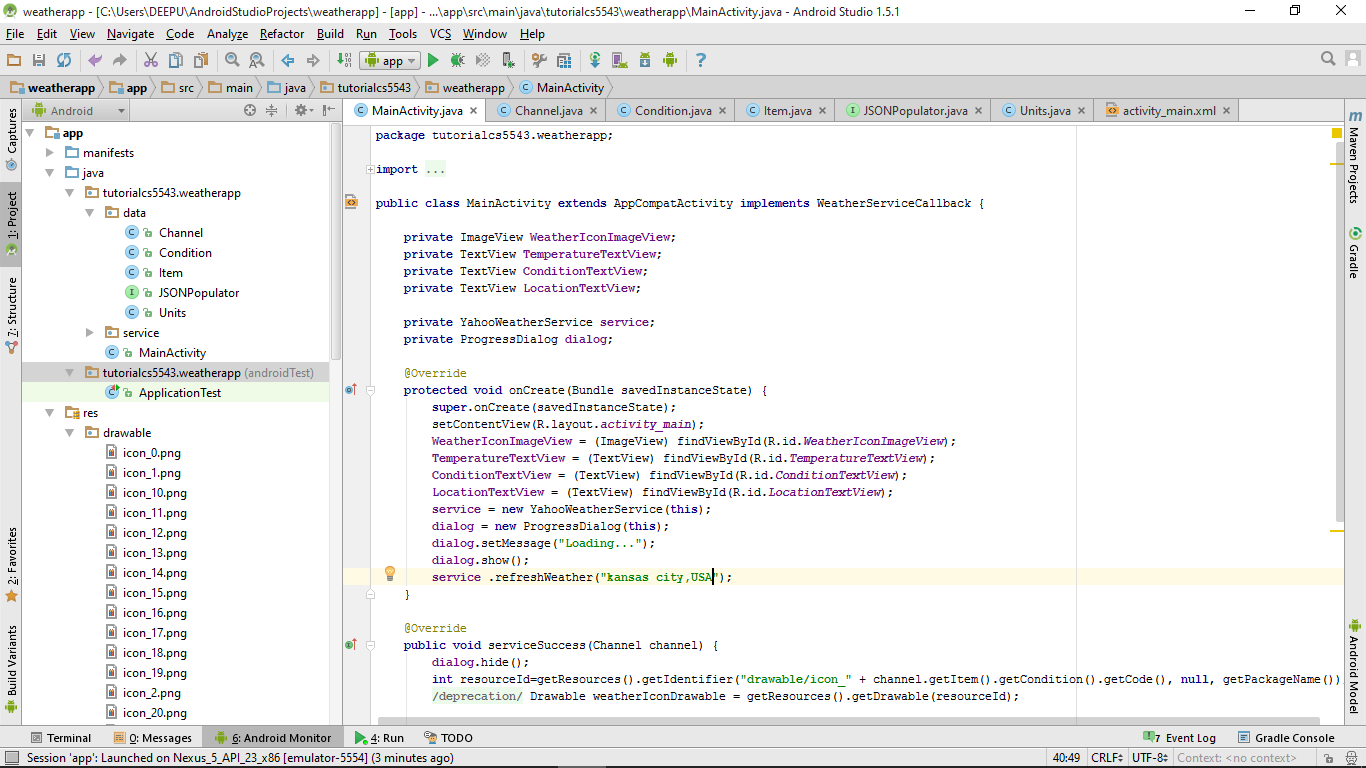
Create a RoboMe and Watch App that uses weather API.

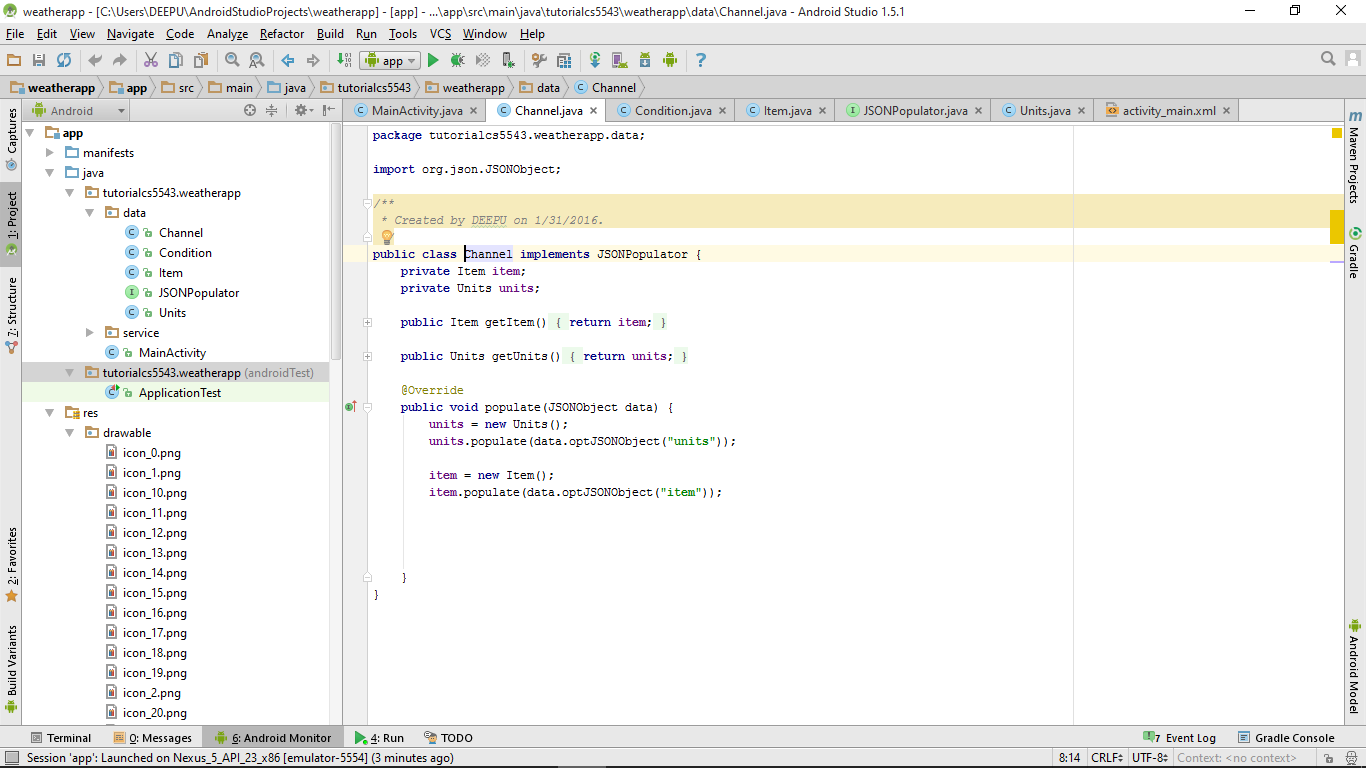
A.

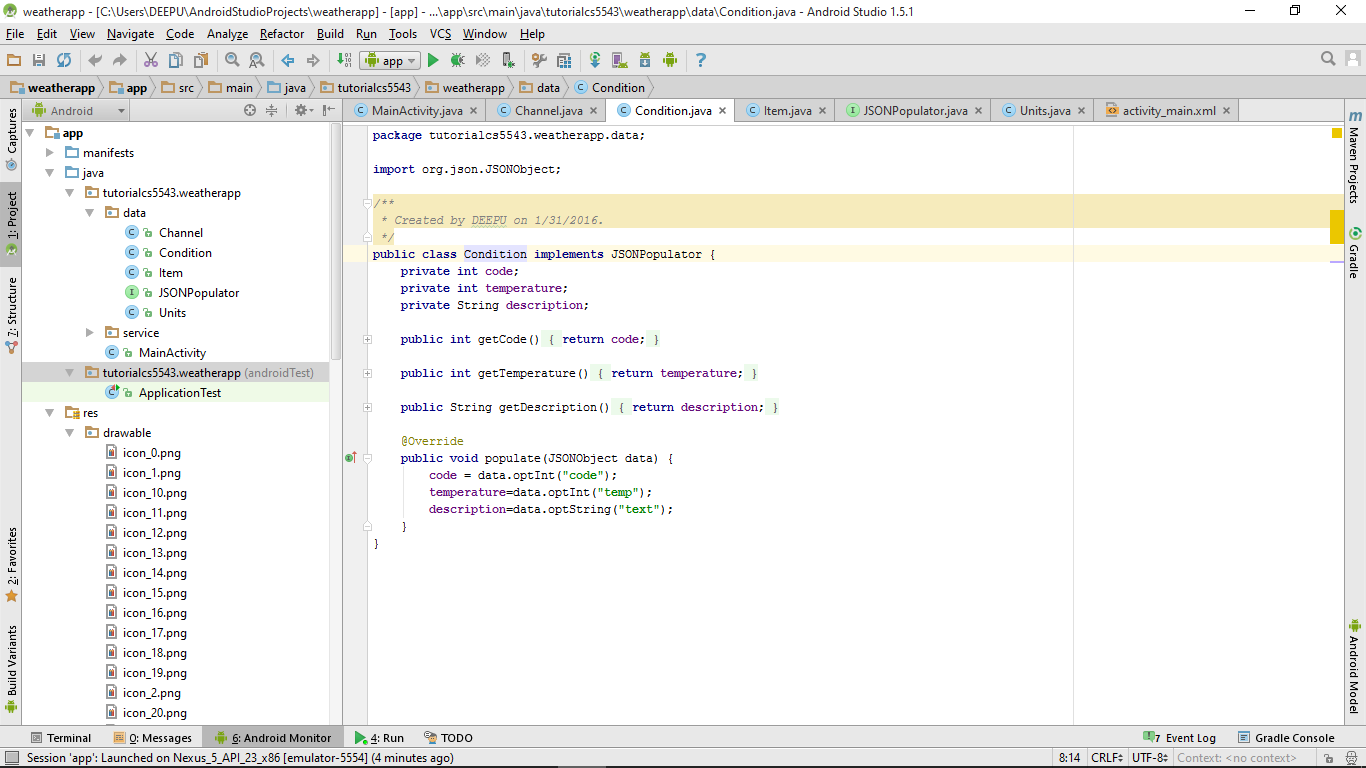
**Description**: This android app uses yahoo weather API. The results are shown below.

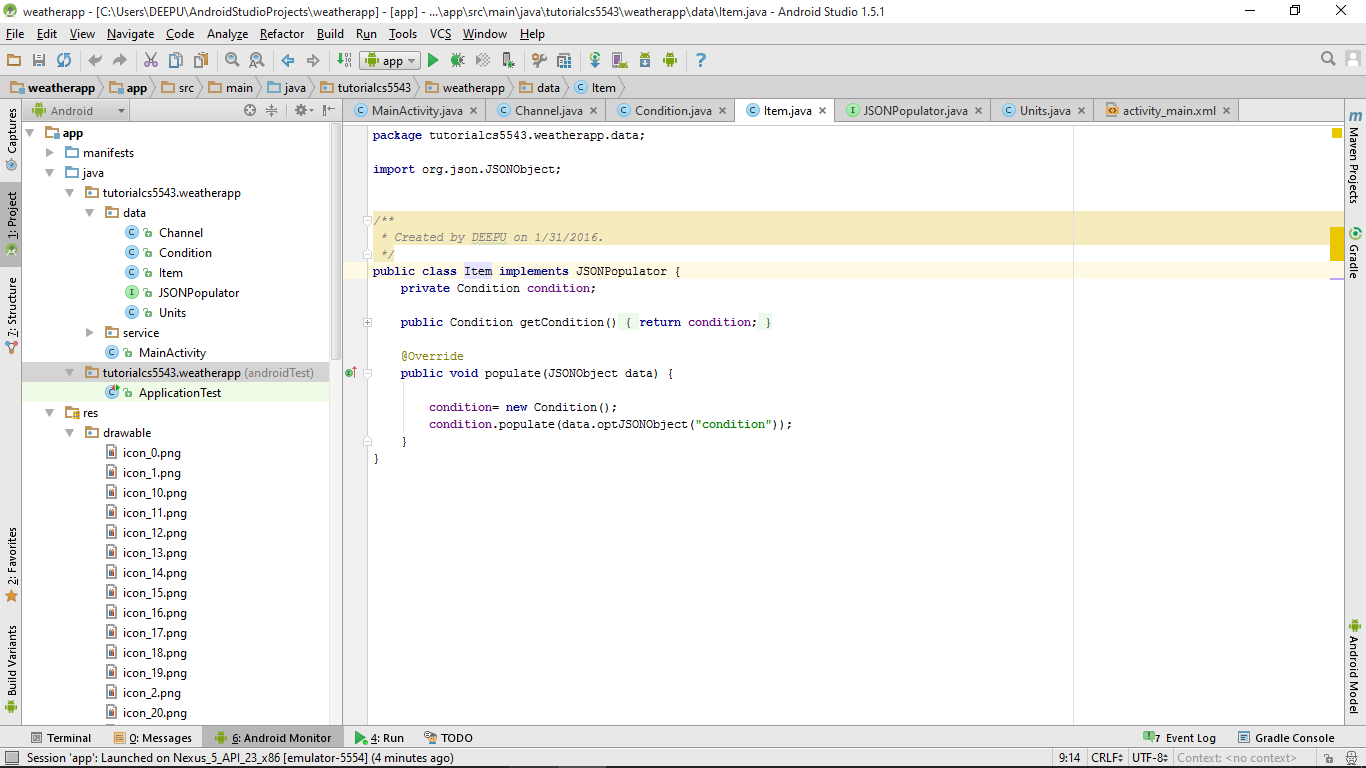
**Screen Shots**:

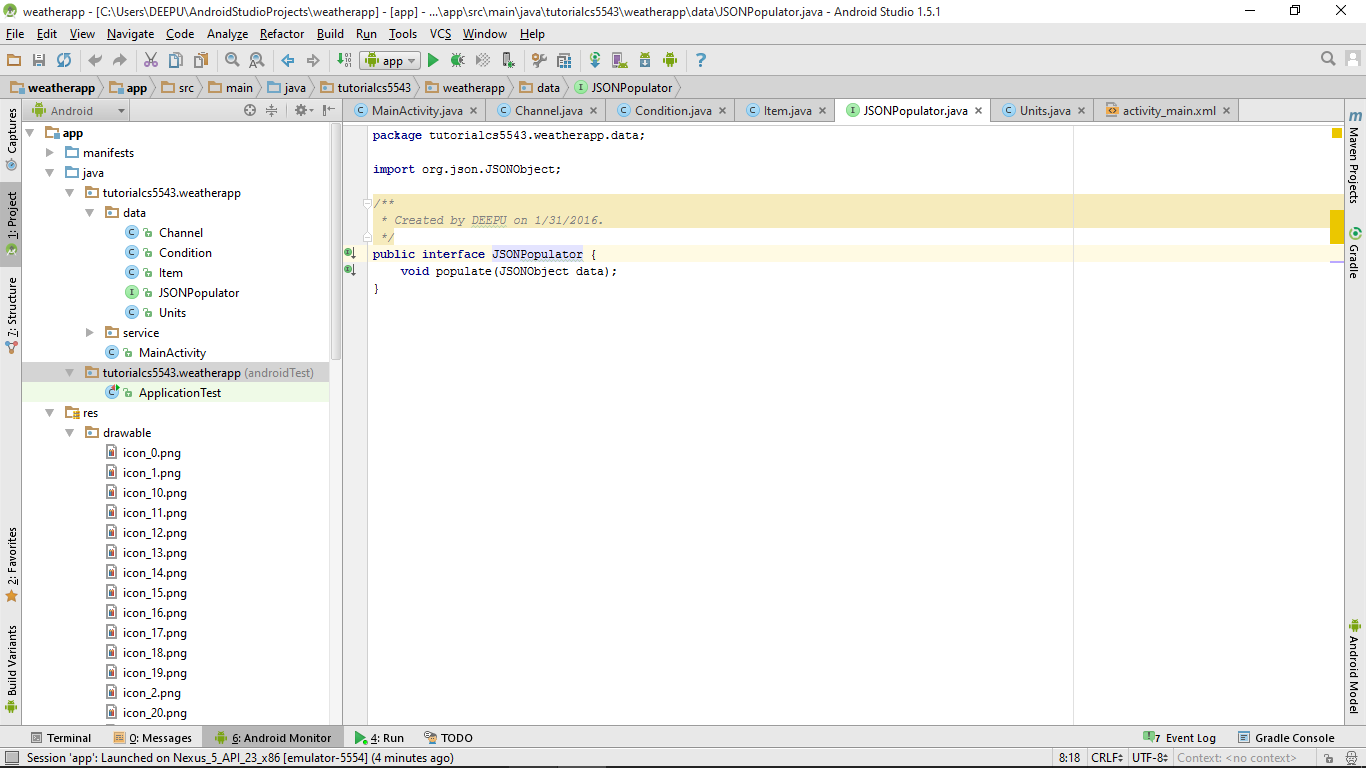


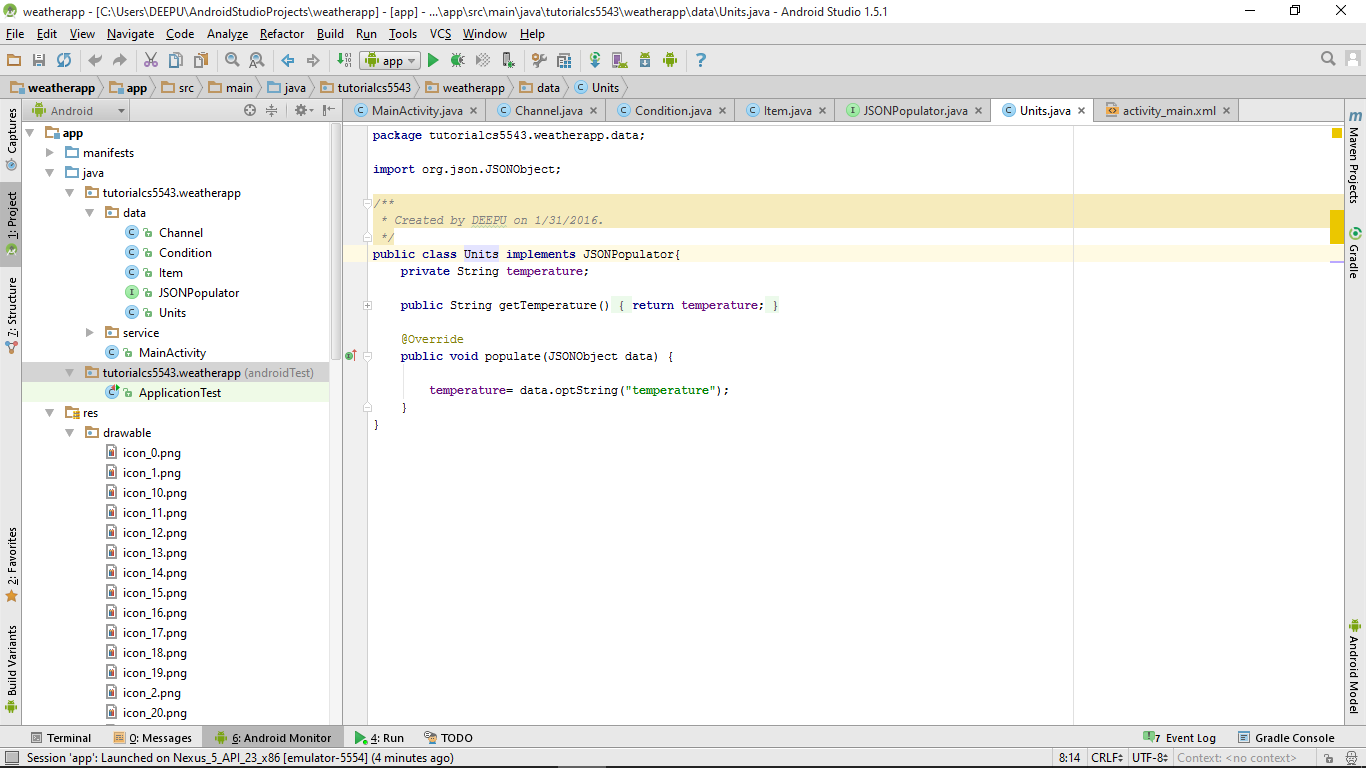


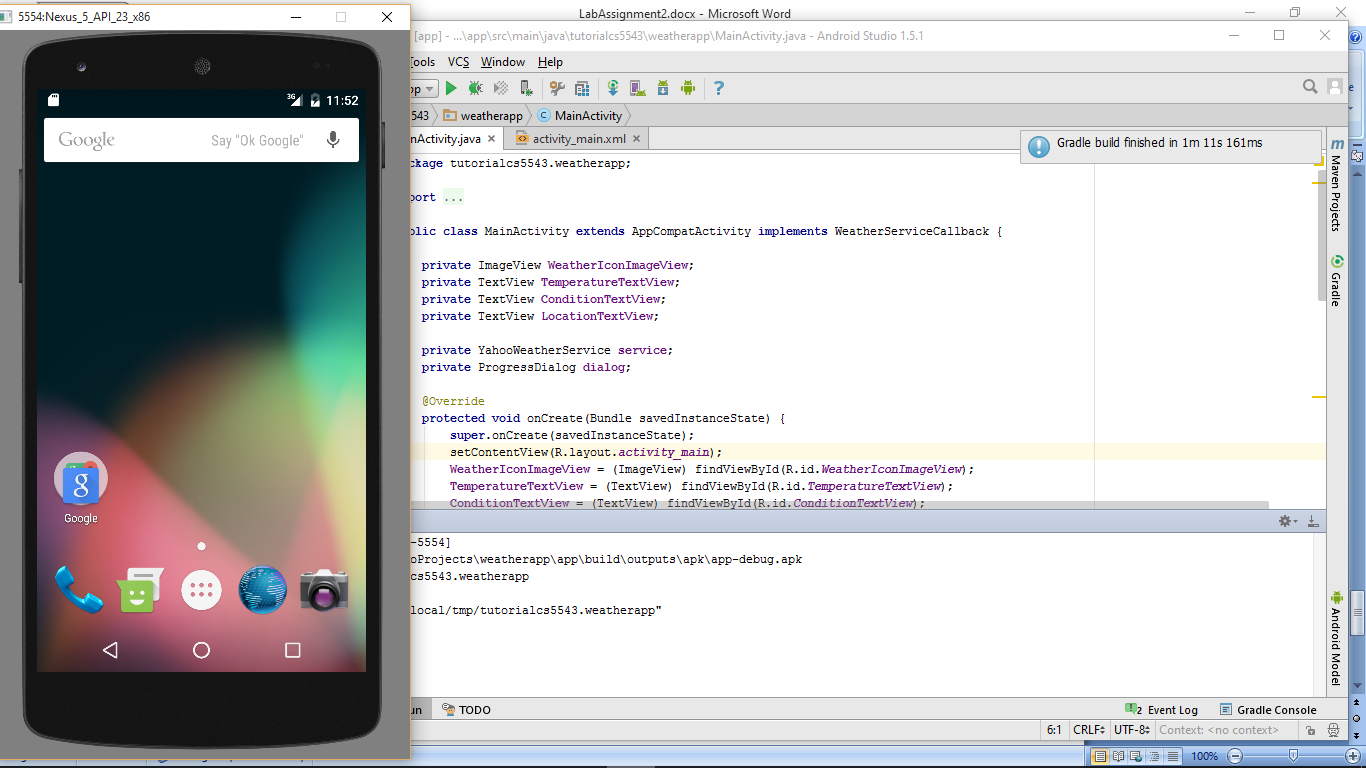


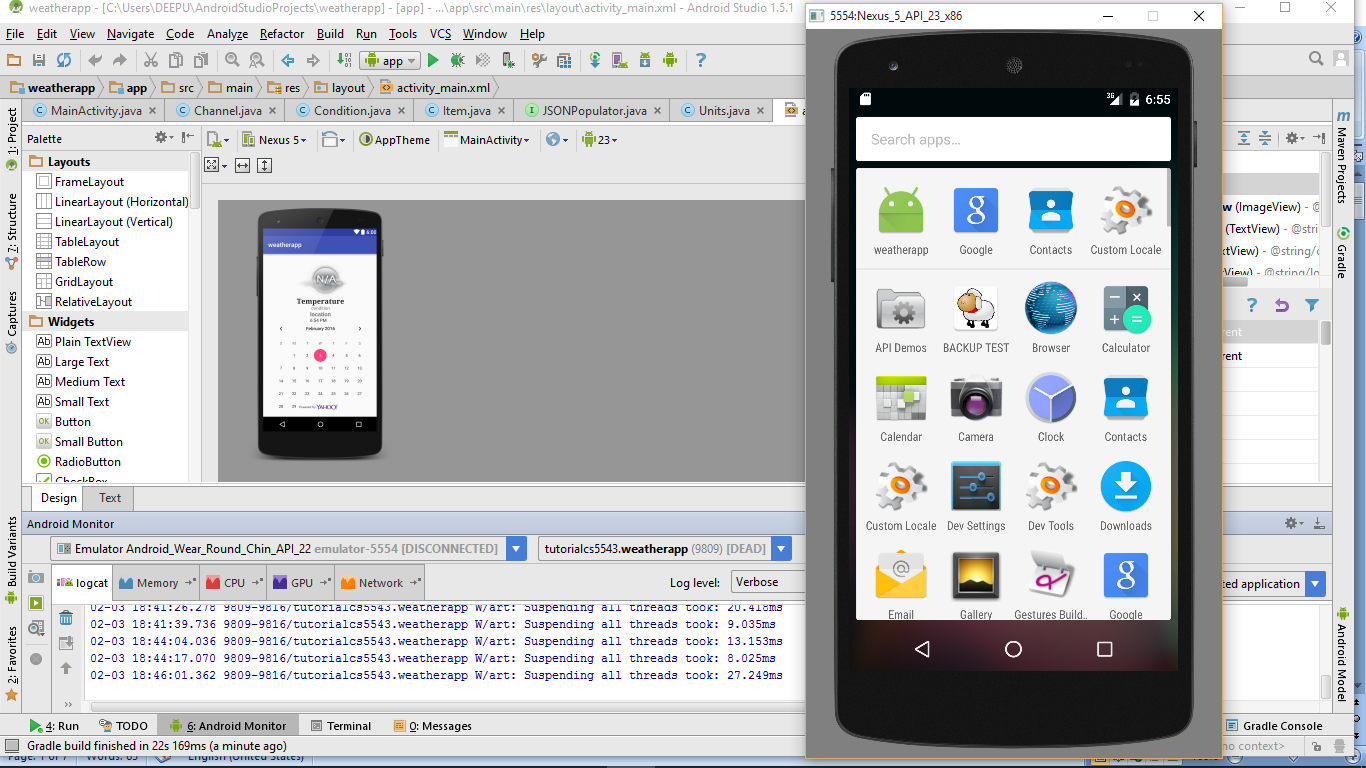


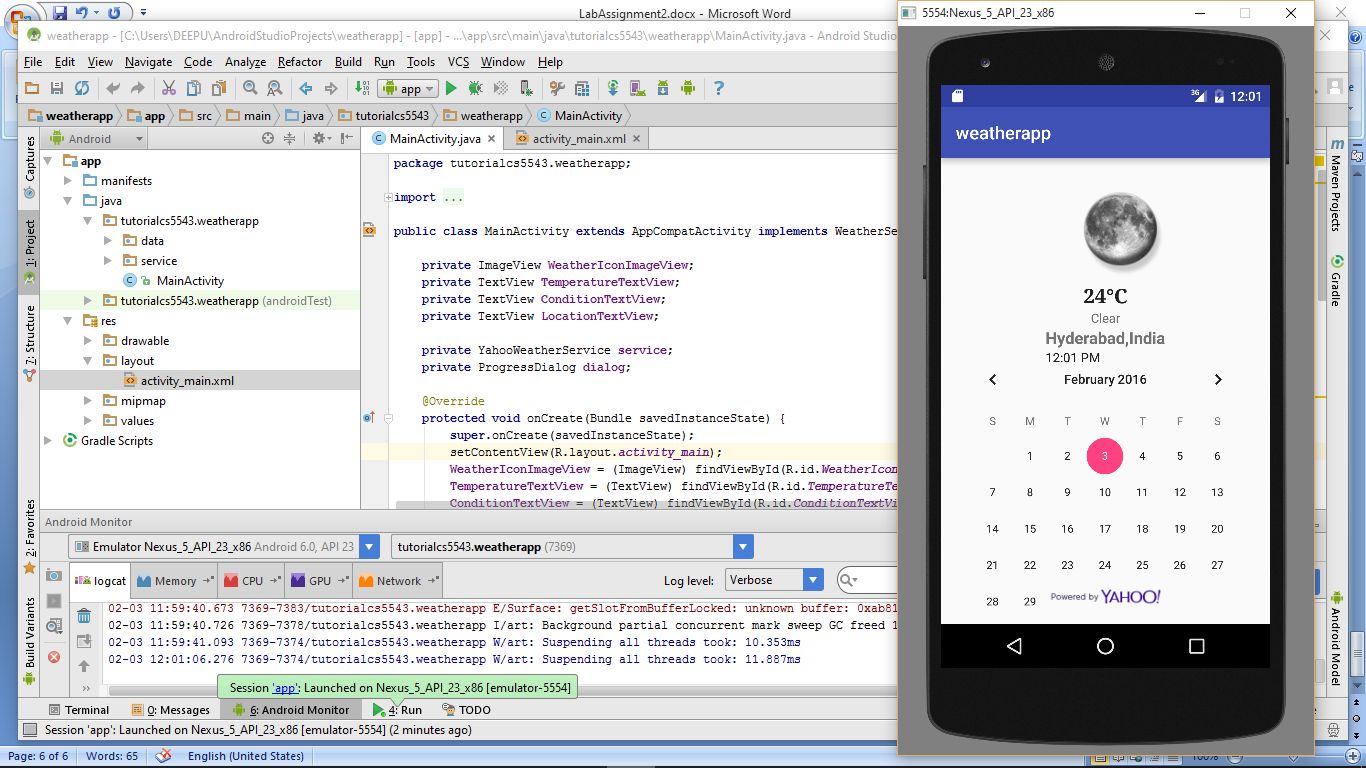


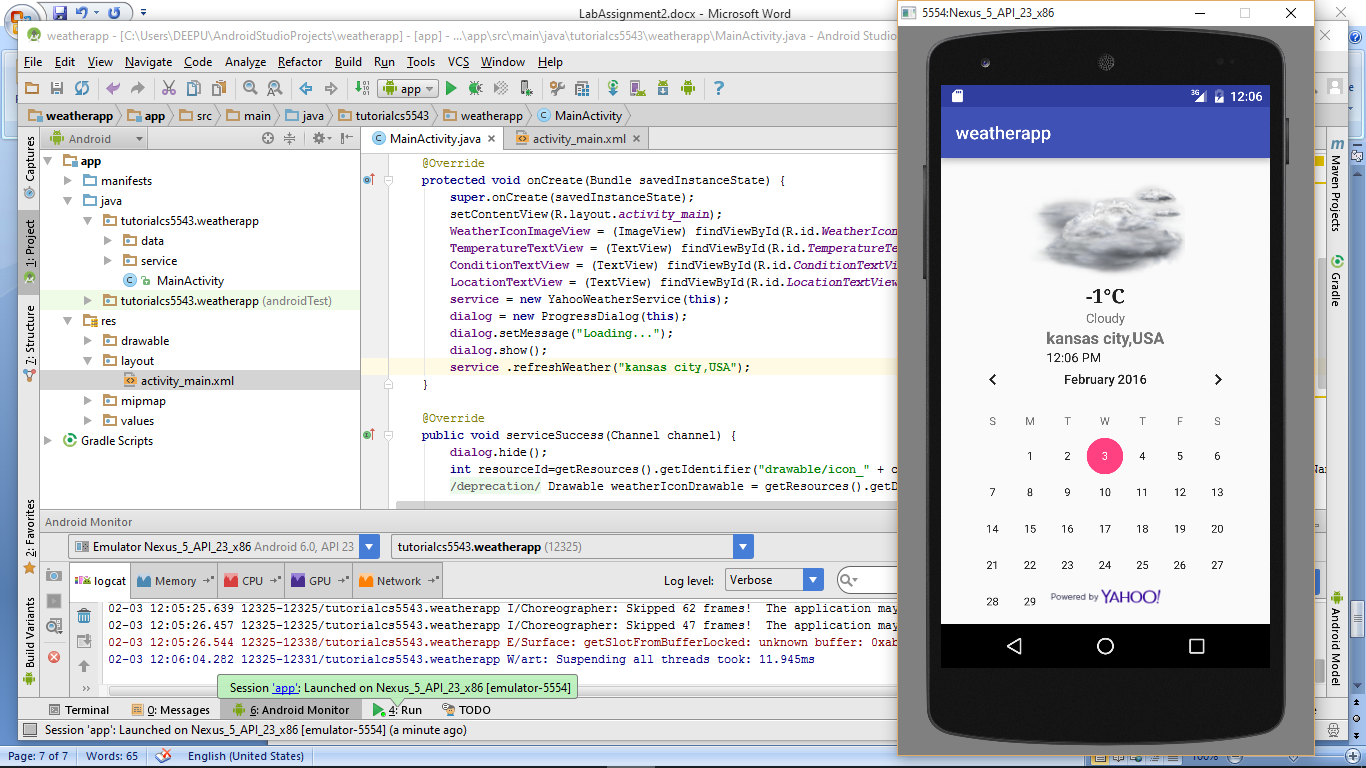


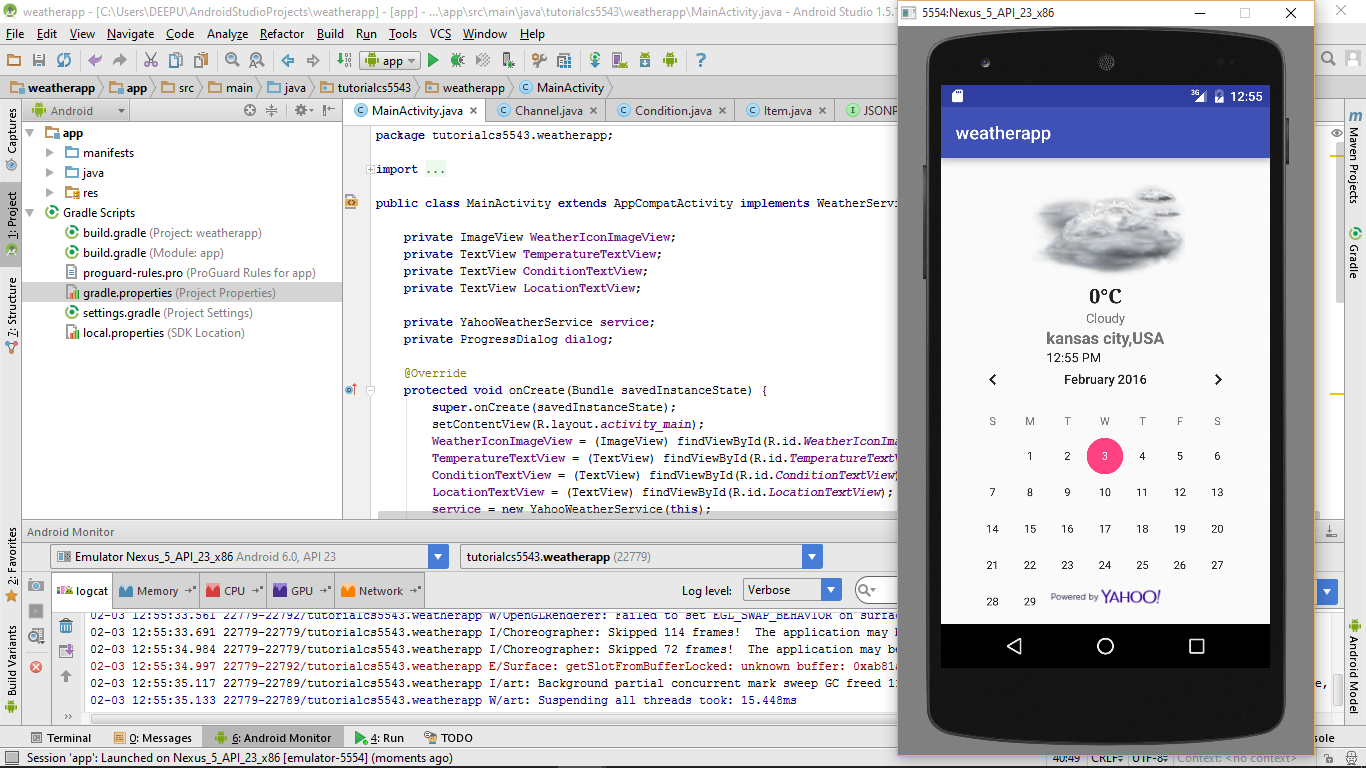


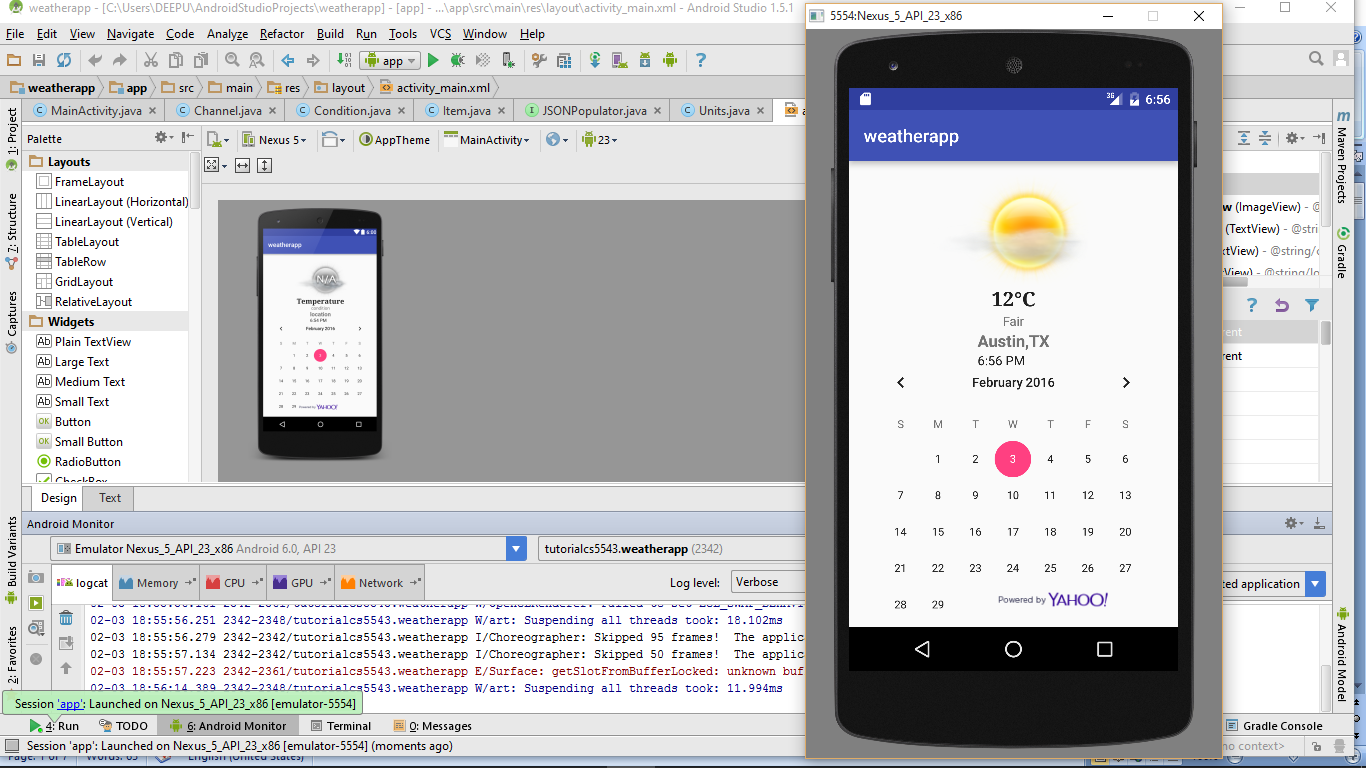


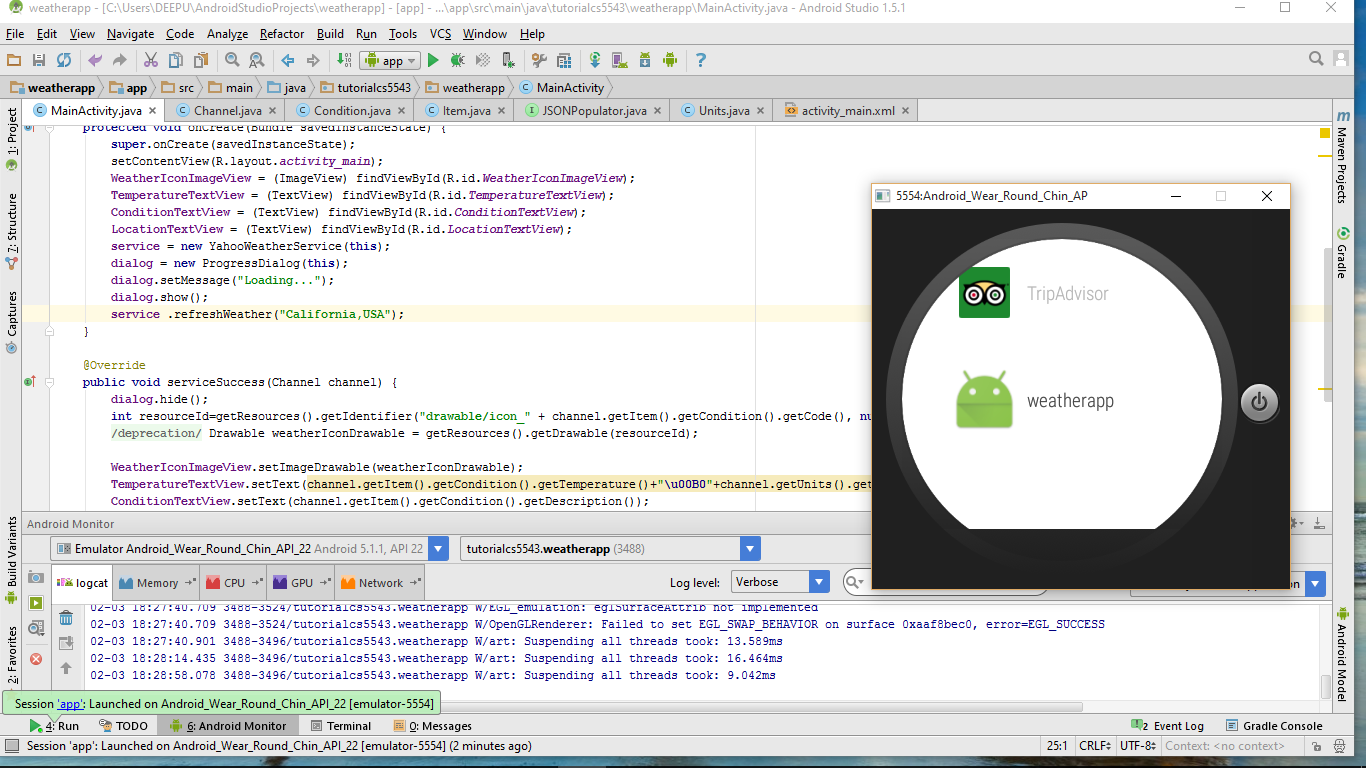




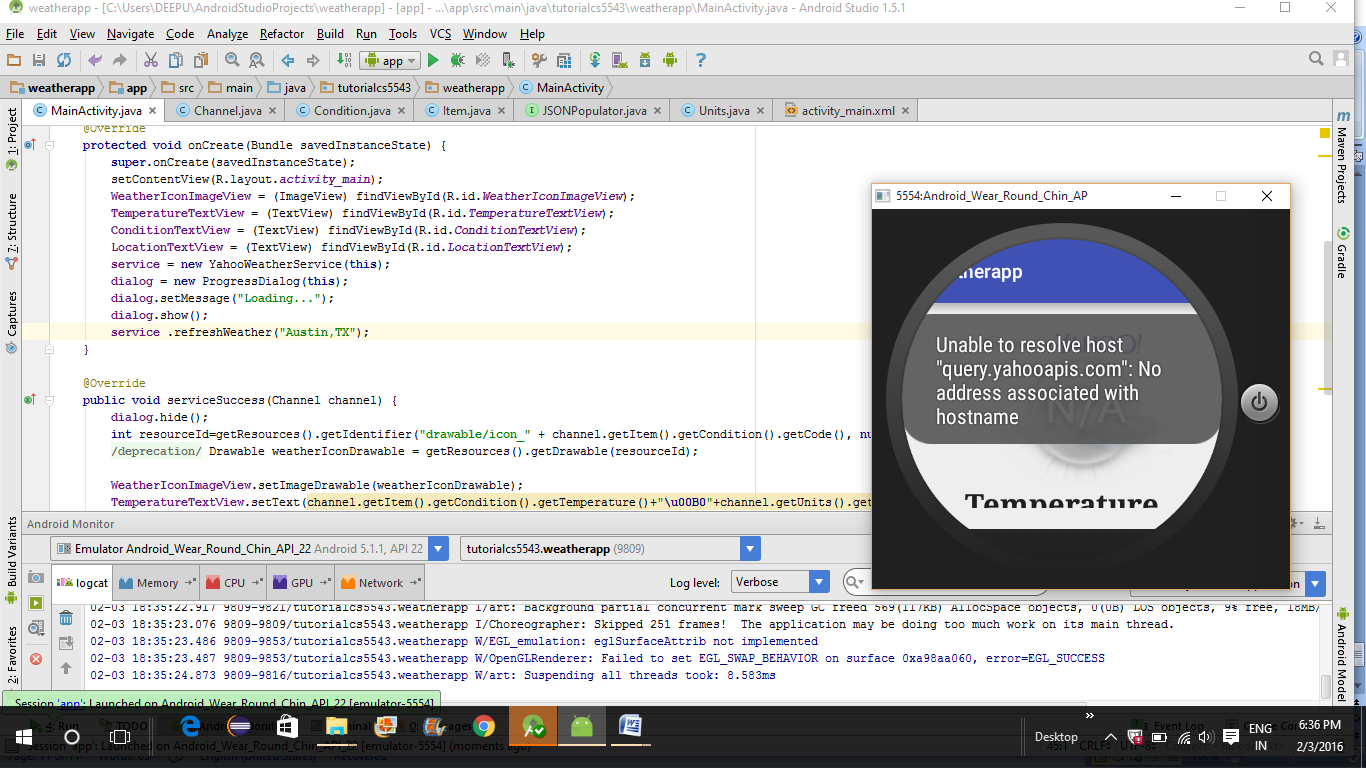


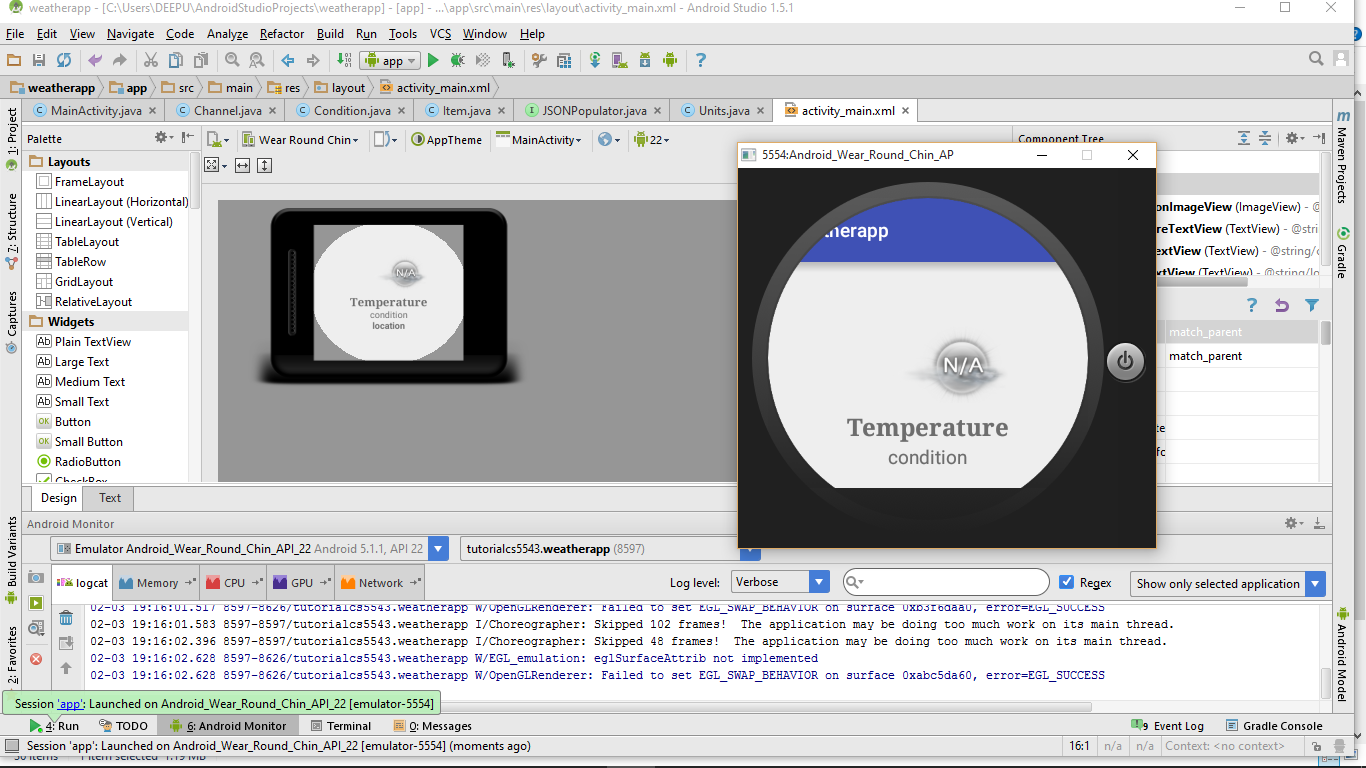






Although the Application works fine with Android phone, there is some problem with smart watch. There is no error in the code, but its saying unable to resolve host in smart watch.





**Reference**: <https://www.youtube.com/watch?v=FkT1kwtYSFU>

<https://en.wikipedia.org/wiki/K-means_clustering>