

Report for Lab Assignment 3

1.

Question: R Project

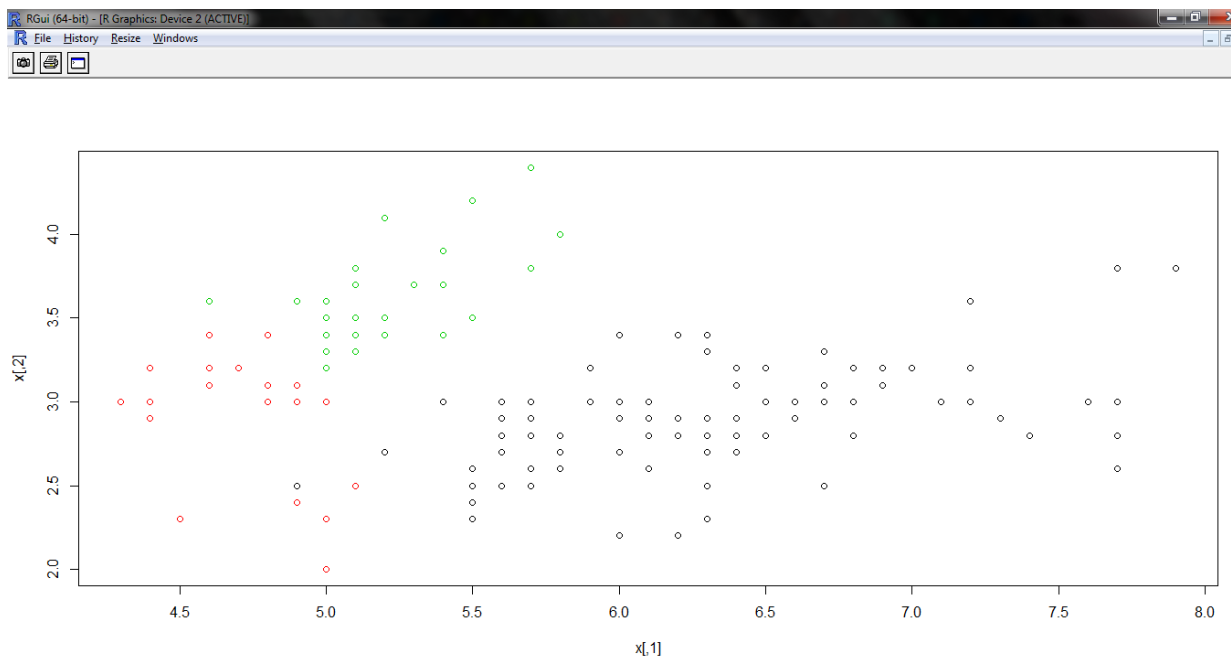
Prepare a dataset related to your own project and perform k-Means, Expectation Maximization (EM), Hierarchical Clustering and report the results.

Description:

Here we have used the IRIS data set which contains different data on petal and sepal's Length & Width. And I have applied k-means, Expectation Maximization, Hierarchical Clustering on the data set and plotted the data I have got after applying clustering.

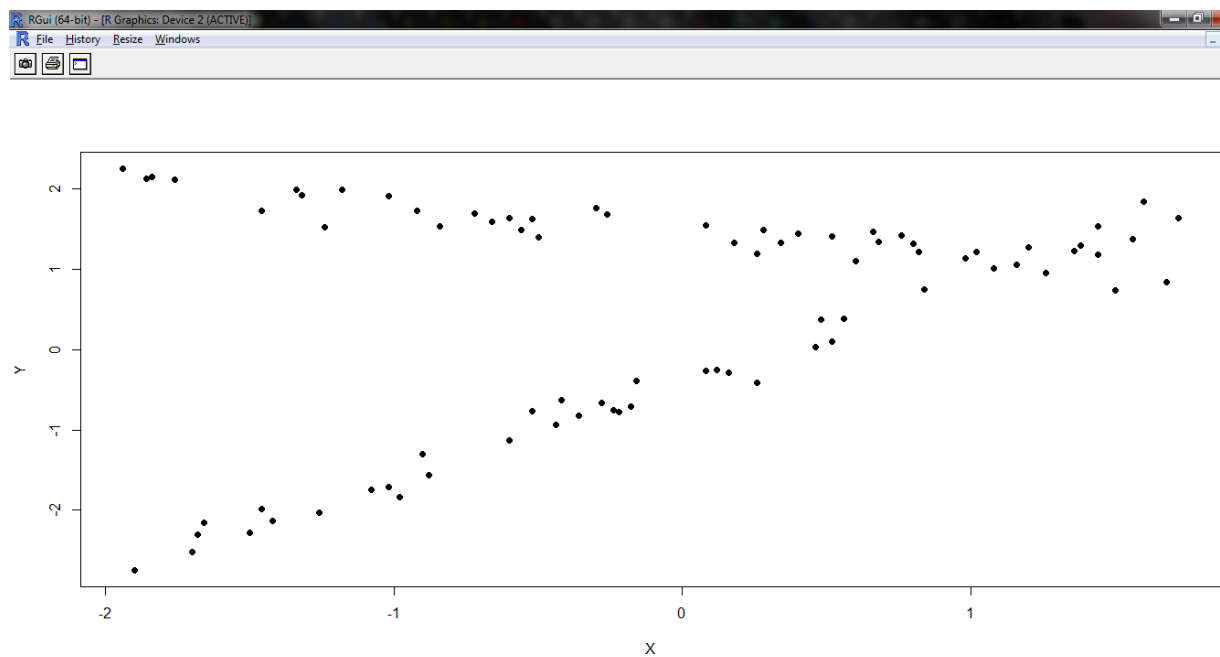
Screenshots:

K-Means:



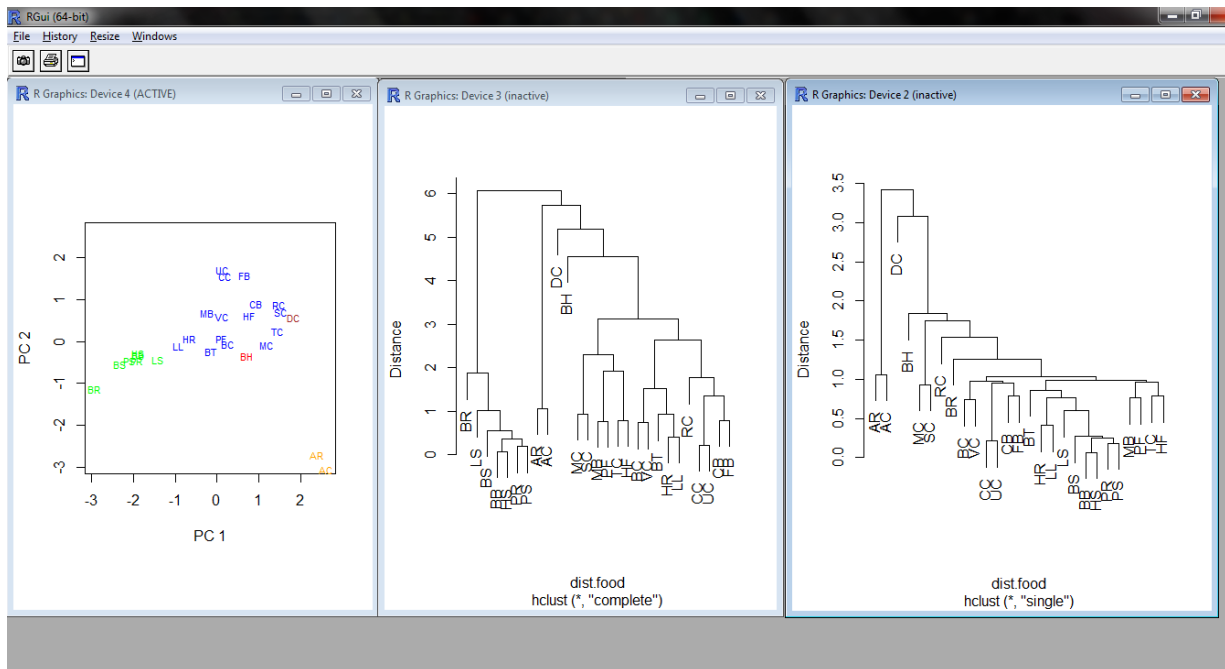
Expectation Maximization:

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Hierarchical Clustering:



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2.

Question: Smartphone/Watch Application

Data collection related to your own project through Smart Phone and Watch, send notifications to watch using intuitive data analysis.

Description:

Here I have used the sensors like heartbeat and pedometer to calculate the current heartbeat of the patient and the steps taken by the patient so that the physicians will get to know the health improvement based on this data.

Screenshots:

<Check in the next Page>

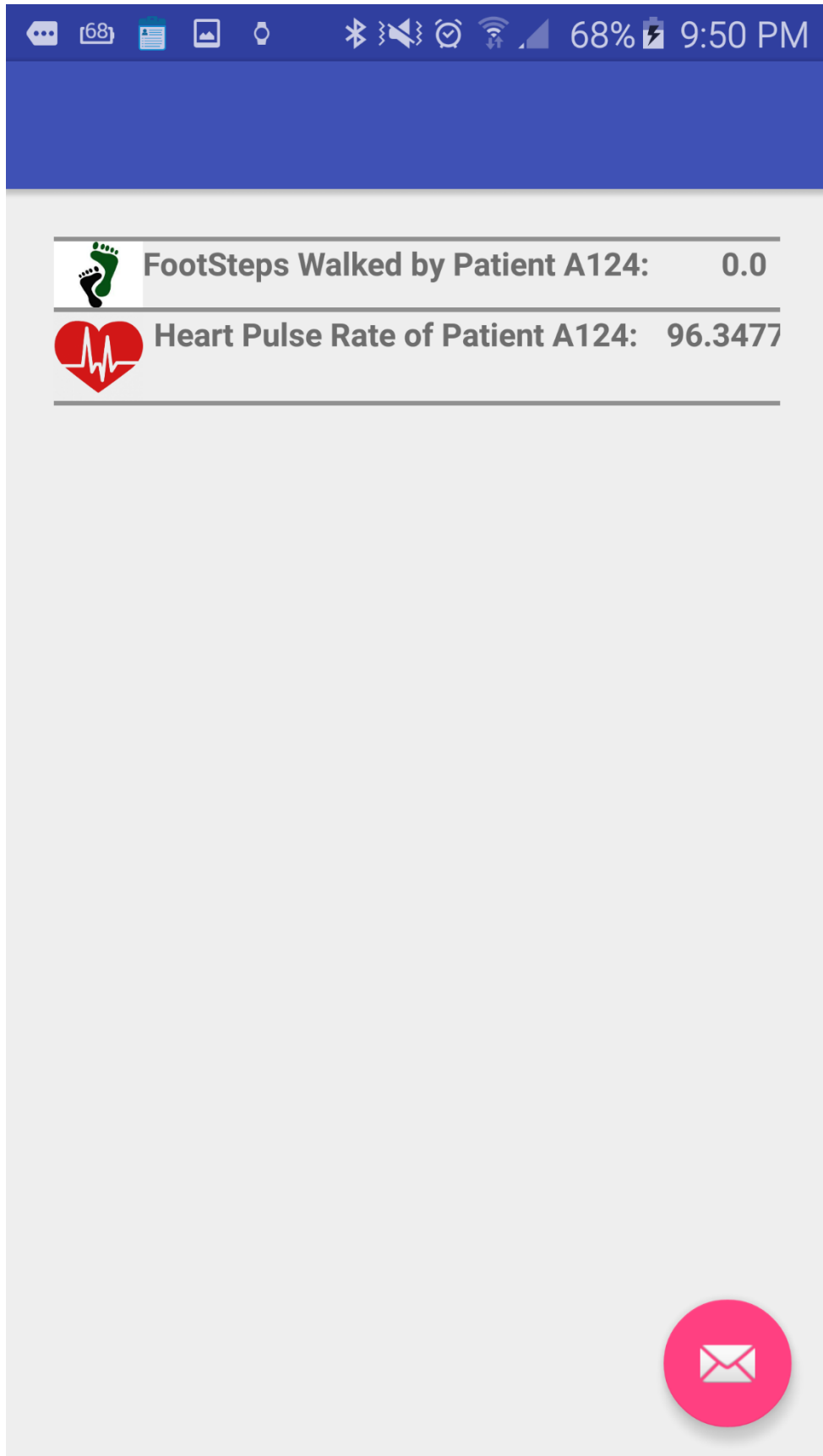
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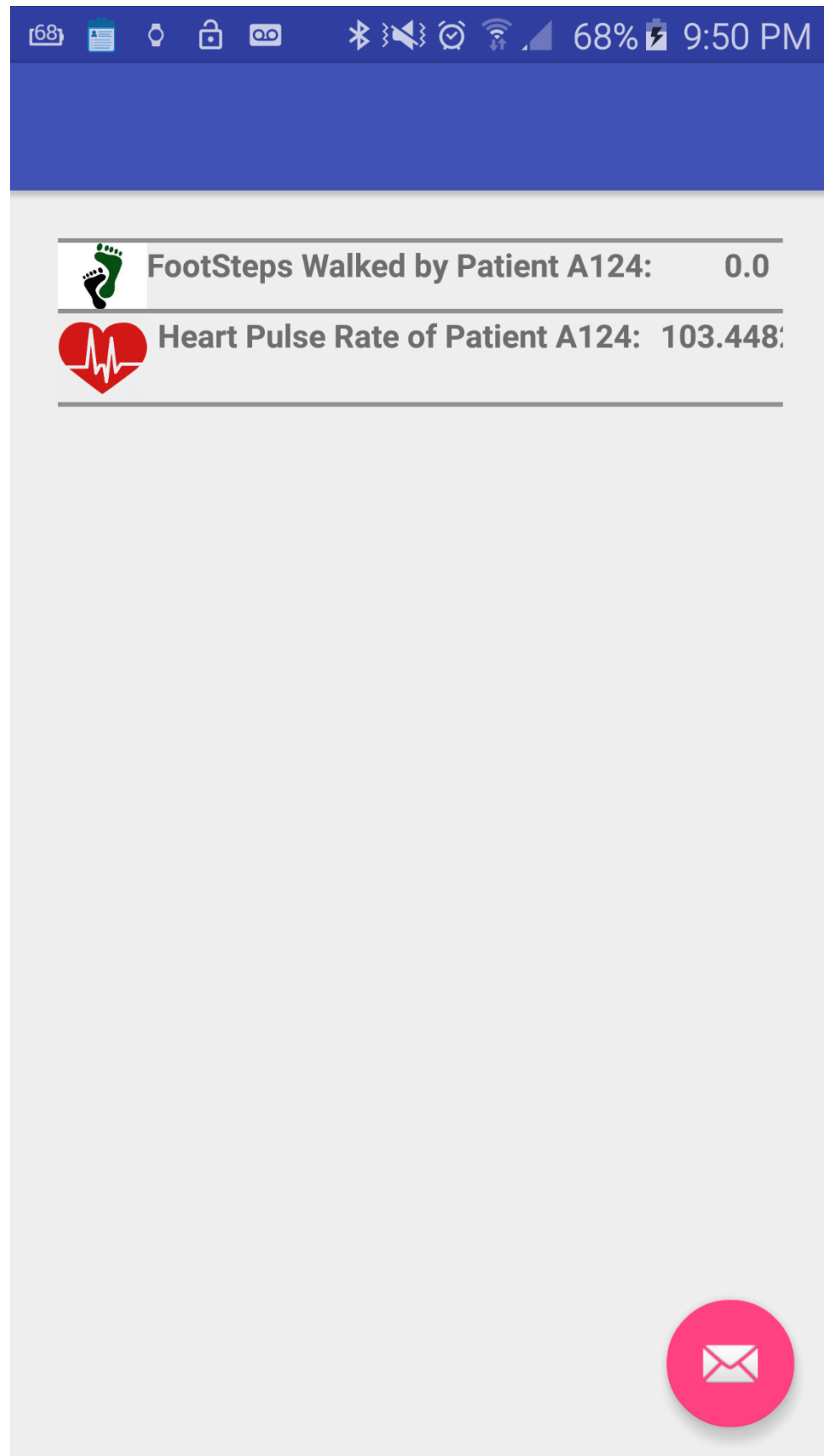
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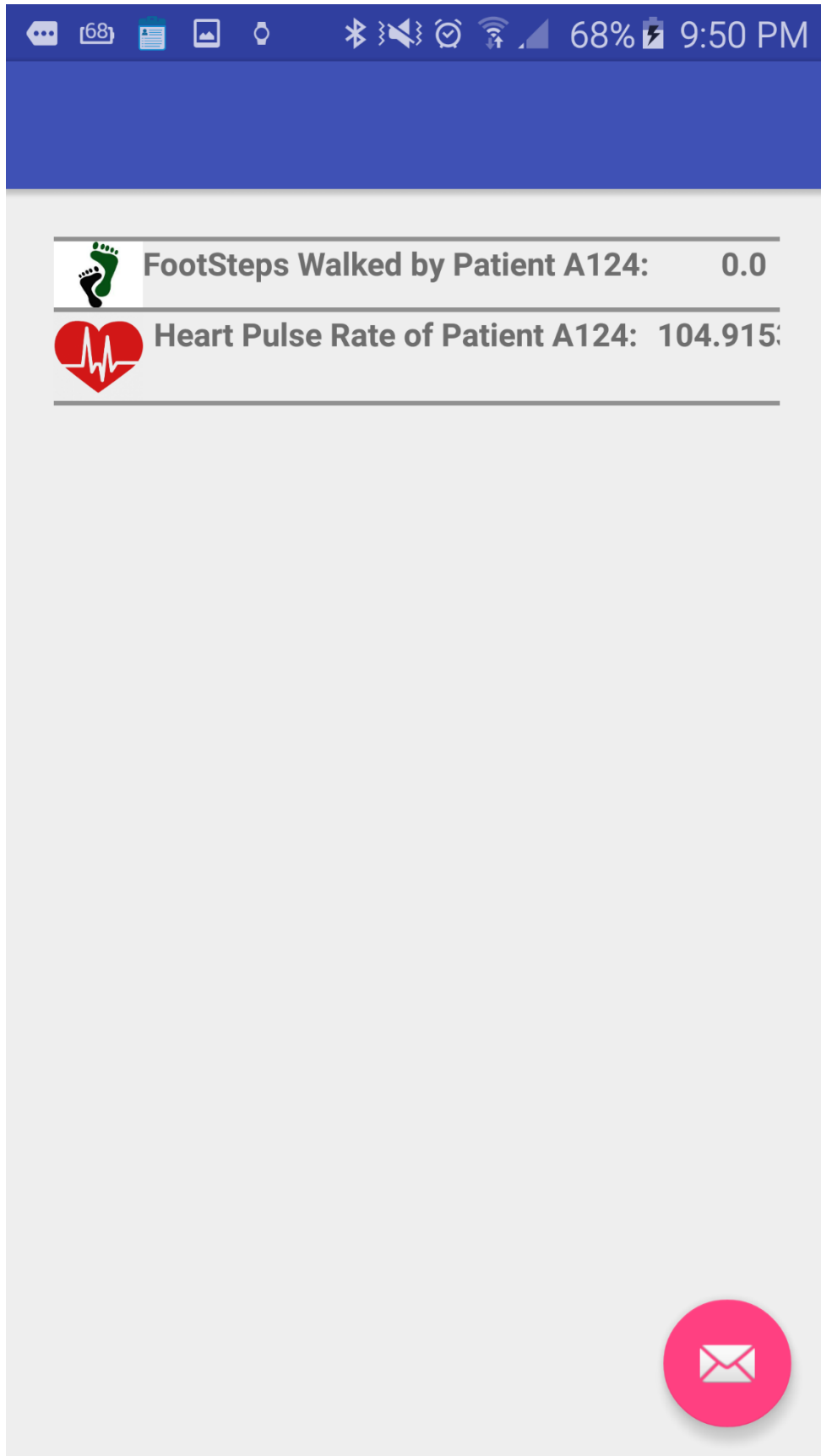
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