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**Project 1**

**Running the program**

1.I have used Eclipse IDE and JAVA for my application, after unzipping the

folder, there will be ‘Project 1’ folder and this write up.

I downloaded the JFrame Designer package for the GUI.

2. From Eclipse IDE, select go to File, select import project from drop down,

select ‘general’ option, and ‘projects from folder or archive’ and select root

folder of Project 1 from your device’s directory, of where the contents are

unzipped. The project name is Ds Thesaurus

3. From the uta.edu package run the Server.java file which opens a Server

window and waits for client connection.

4. Then run Client.java file which will open Client window, connection

established with the Server.

5. In Client window, enter the word you want to search synonym of.

6. EXTRA CREDIT- MULTIPLE CLIENTS CAN RUN USING MULTIPLE THREADS OF SERVER

**Assumptions/Limitations**

- Client has to enter a word , server will respond to multiple number of clients

-Client can find only those synonyms which are there on the file

- Thesaurus file has just 5 words. The file name is dsthesaurus.

**For Bonus Points**

- Multithreading : Multiple clients can request server and server will create multiple threads to process each request

**References**

**Multithread**

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**Socket Programming**

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**File**

https://stackoverflow.com/questions/9520911/java-sending-and-receiving-file-byte-over-sockets

https://www.youtube.com/watch?v=vCDrGJWqR8w

http://www.geeksforgeeks.org/split-string-java-examples/

**GUI**

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https://stackoverflow.com/questions/13115784/sending-a-message-to-all-clients-client-server-communication

http://javadevnotes.com/java-string-split-tutorial-and-examples