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**Setup Instruction:**

**Loading the project:**

1. Open eclipse-java.
2. Select **File > Import**.
3. Select **General > Existing Projects into Workspace**, and click **next**.
4. Make sure that **Select Archive File** is checked and browse for ***L3G1\_project\_it2.zip***.
5. Click **Finish**.

**Running the program:**

1. For running multiple programs simultaneously in Eclipse, right click on each source file (Client.java, Host.java and Server.java) and choose: "Run As >> Java Application". (Ensure that each program runs in a separate console window.)   
   See <https://stackoverflow.com/a/5453914>
2. **Run "Server.java"** (Under "tftp" package).
3. **Run "ErrorSimulator.java"** (Under "tftp" package).

* For normal operation enter ‘0’
* To lose a packet enter   
   **1 [Block #] [DATA or ACK]**   
   (e.g. '1 2 DATA', '1 3 ACK' etc.)
* To delay a packet enter  
   **2 [Block #] [DATA or ACK] [How much delay (in miliseconds)]**  
   (e.g. '2 2 DATA 7000', '2 3 ACK 8500' etc.)
* To duplicate a packet enter:  
   **3 [Block #] [DATA or ACK] [Space between duplicates ((in miliseconds))]**  
   e.g. '3 2 DATA 7000', '3 3 ACK 8500' etc.
* To simulate invalid TFTP opcode on RRQ or WRQ:  
   **4**
* Simulate invalid mode:  
   5

1. **Run "Client.java"** (Under "tftp" package)

* Enter **'1'** to send an RRQ OR **'2'** to send a WRQ.
* Type and enter the filename you want to read (e.g. enter 'server\_big.txt' for RRQ or 'client\_big.txt' for WRQ).

\*\*\* **NOTE**:

For RRQ: the file must reside in "test\_files/server" folder. (e.g 'server\_big.txt')

For WRQ: the file must reside in "test\_files/client" folder. (e.g 'client\_big.txt')

1. For RRQ: The file now should be transferred to the 'test\_files/client' folder from server.
2. For WRQ: The file should be transferred to the 'test\_files/server' folder from client.
3. On the server console enter 'exit' to shut down server OR enter 'c' to continue.  
   Note: Must enter 'c' to continue transferring file.
4. On the client console either enter 'exit' to shut down client.