Programming Project: Part 2

Enhance connect command to support keepalive option. Support the url option where you can specify a url to which the client must issue a ramdom string

Programming Language to use: Java 8

This work will be part of a larger semester long project so try to build the software in an extensible manner. You will write Bot Master (MasterBot.java) and provide the code for the slaves (SlaveBot.java) to be commanded by the Bot Master. The master, when started, will present a command line interface to the user like that provided by the shell in unix (i.e. present prompt '>'). The following commands are to be supported:

(DO NOT INCLUDE THE HYPEN IN YOUR COMMANFD SYNTAX, ONLY THE COMMAND: i.e. list)

1.-connect (IPAddressOrHostNameOfYourSlave|all) (TargetHostName|IPAddress) TargetPortNumber [NumberOfConnections: 1 if not specified] [keepalive]

When the keepalive option is given, your client should select that socket option while creating the related connection.

2.- connect (IPAddressOrHostNameOfYourSlave|all) (TargetHostName|IPAddress) TargetPortNumber [NumberOfConnections: 1 if not specified] [url=path-to-be-provided-to-web-server]

As an example, if you select to attack the Google search engine you will use:

url=/#q=

The slave will generate a HTTP request equivalent to: https://www.google.com/#q=YourRandomString

Your client must also clean up data provided by the server response. The length of the string being added to the should also be generated at random between 1 char and 10 chars.