HW4 Programming Assignment Setup Instructions

Following are the steps on how to set up the environment required for the programming question in HW3(1), coin change, for CSC505-Design and Analysis of Algorithms course. Below are the steps:

1) Go to remote-linux server:
`ssh <unity-id>@remote-linux.eos.ncsu.edu,`
Eg: `ssh jeyre@remote-linux.eos.ncsu.edu`. Enter your campus password when requested. After successful authentication, you'll be logged in with your present working directory as: /afs/unity.ncsu.edu/users/

2) Copy the contents of the framework.zip to the newly remote-linux server. The following instructions will help you to do so:

a. 'scp' command to copy the contents from your local machine to the remote-linux server
Syntax: `scp -r source destination`
For example: `scp framework.zip`
`jeyre@remote-linux.eos.ncsu.edu:/afs/unity.ncsu.edu/users/e/jeyre/`

The above command copies the framework.zip from your local directory to the remote-linux server on remote-linux (jeyre@remote-linux.eos.ncsu.edu) directory.

3) After you have scp-ed the framework.zip file to the remote-linux server, use the following command to unzip it:
`unzip framework.zip`

For students who are developing their programming assignment in JAVA, you should write your code in Solution.java file, and all the test cases are in SortingTest.java file. Execute the following commands in the remote-linux server:
a. `cd framework/java`
b. Develop your program in the java file: Dijkstra.java.
c. Compile your java program by using this command: `./compile.sh`, this command will create two files: Dijkstra.class, DijkstraTest.class
d. Run and test your java programs by using the command `./testing.sh`
e. You need to pass all tests.

4) For students who are developing their programming assignment in PYTHON 2.7, execute the following command in the remote-linux server:

a. `python DijkstraTest.py -v`
This executes your developed program in "Dijkstra.py" and runs several test cases on it.

b. You need to pass all tests

5) Submit your programming homework

You only need to submit one programming file: Dijkstra.py or Dijkstra.java. To do so, you need to scp your remote file back to local, and upload it to moodle.

To copy folders and files from the remote-linux server to local machine, here's an example:

```
scp
jeyre@remote-linux.eos.ncsu.edu:/afs/unity.ncsu.edu/users/e/jeyre/<file name and location>  <your local location>
```