CSC3100 Assignment 1 Test Instructions

Li Wenye / Oct. 12, 2021

Step 1. Log in the server with "ssh -p 61000 [username]@10.26.1.65" or "ssh -p 61001 [username]@10.26.1.65". Replace [username] with your user account.

```
[wenye@localhost ~]$ ssh -p 61000 liwenye@10.26.1.65
liwenye@10.26.1.65's password:
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.4.0-72-generic x86 64)
 * Documentation: https://help.ubuntu.com
* Management:
                  https://landscape.canonical.com
                  https://ubuntu.com/advantage
 * Support:
 System information as of Tue Oct 12 10:36:44 UTC 2021
 System load:
                 0.03
                           Temperature:
                                                  36.0 C
 Usage of /home: unknown
                           Processes:
 Memory usage:
                 18
                           Users logged in:
 Swap usage:
                 0%
                           IPv4 address for eth0: 10.27.161.55
 * Super-optimized for small spaces - read how we shrank the memory
  footprint of MicroK8s to make it the smallest full K8s around.
  https://ubuntu.com/blog/microk8s-memory-optimisation
5 updates can be applied immediately.
To see these additional updates run: apt list --upgradable
Last login: Mon Oct 11 05:59:36 2021 from 127.0.0.1
liwenye@ds01:~$
```

Step 2. Create a directory called "assignment1" with "mkdir assignment1".

```
liwenye@ds01:~$ cd ~/
liwenye@ds01:~$ pwd
/home/liwenye
liwenye@ds01:~$ mkdir assignment1
liwenye@ds01:~$ ls -l
total 1
drwxrwxr-x 2 liwenye liwenye 2 Oct 12 11:31 assignment1
liwenye@ds01:~$
```

Step 3. Change your working directory to assignment1 with "cd assignment1/".

Copy your assignment files into assignment1 directory.

Check your files with "ls -l".

```
liwenye@ds01:~$ cd assignment1/
liwenye@ds01:~/assignment1$ ls -l
total 15
-rw-rw-r-- 1 liwenye liwenye 282 Oct 12 11:23 MathExpr.java
-rw-rw-r-- 1 liwenye liwenye 869 Oct 12 11:23 TestMathExpr.java
-rw-rw-r-- 1 liwenye liwenye 53 Oct 12 11:23 inputA.txt
-rw-rw-r-- 1 liwenye liwenye 180 Oct 12 11:23 inputB.txt
-rw-rw-r-- 1 liwenye liwenye 15 Oct 12 11:23 outputA.txt
-rw-rw-r-- 1 liwenye liwenye 39 Oct 12 11:23 outputB.txt
liwenye@ds01:~/assignment1$
```

Step 4. Compile your java source code with "javac MathExpr.java" and "javac TestMathExpr.java".

If the compilation is successful, you will see the ".class" files.

```
liwenye@ds01:~/assignment1$ javac MathExpr.java
liwenye@ds01:~/assignment1$ javac TestMathExpr.java
liwenye@ds01:~/assignment1$ ls -1
total 24
-rw-rw-r-- 1 liwenye liwenye 262 Oct 12 11:24 MathExpr.class
-rw-rw-r-- 1 liwenye liwenye 282 Oct 12 11:23 MathExpr.java
-rw-rw-r-- 1 liwenye liwenye 1201 Oct 12 11:24 TestMathExpr.class
-rw-rw-r-- 1 liwenye liwenye 869 Oct 12 11:23 TestMathExpr.java
-rw-rw-r-- 1 liwenye liwenye 53 Oct 12 11:23 inputA.txt
-rw-rw-r-- 1 liwenye liwenye 180 Oct 12 11:23 inputB.txt
-rw-rw-r-- 1 liwenye liwenye 15 Oct 12 11:23 outputA.txt
-rw-rw-r-- 1 liwenye liwenye 39 Oct 12 11:23 outputB.txt
liwenye@ds01:~/assignment1$
```

Step 5. Execute your program with "java TestMathExpr inputA.txt output.txt", where inputA.txt is a text file of input mathematical expressions, and output.txt is the output file of results.

Step 6. Compare your results with the solution with "cmp output.txt outputA.txt", where output.txt is the output file from your program and outputA.txt is the answer file.

If the two files are the same, there will be no output.

```
liwenye@ds01:~/assignment1$ cmp output.txt outputA.txt liwenye@ds01:~/assignment1$
```

If the two files are different, messages will be shown which gives the first difference encountered.

```
liwenye@ds01:~/assignment1$ cmp output.txt outputA.txt outputA.txt differ: byte 1, line 1 liwenye@ds01:~/assignment1$
```

Finished.