The University of Melbourne
School of Computing and Information Systems

COMP90041 Programming and Software Development

Lecturer: Prof. Rui Zhang

Semester 1, 2019, Week 2

COMP90041 Lab Week 2 Step by Step

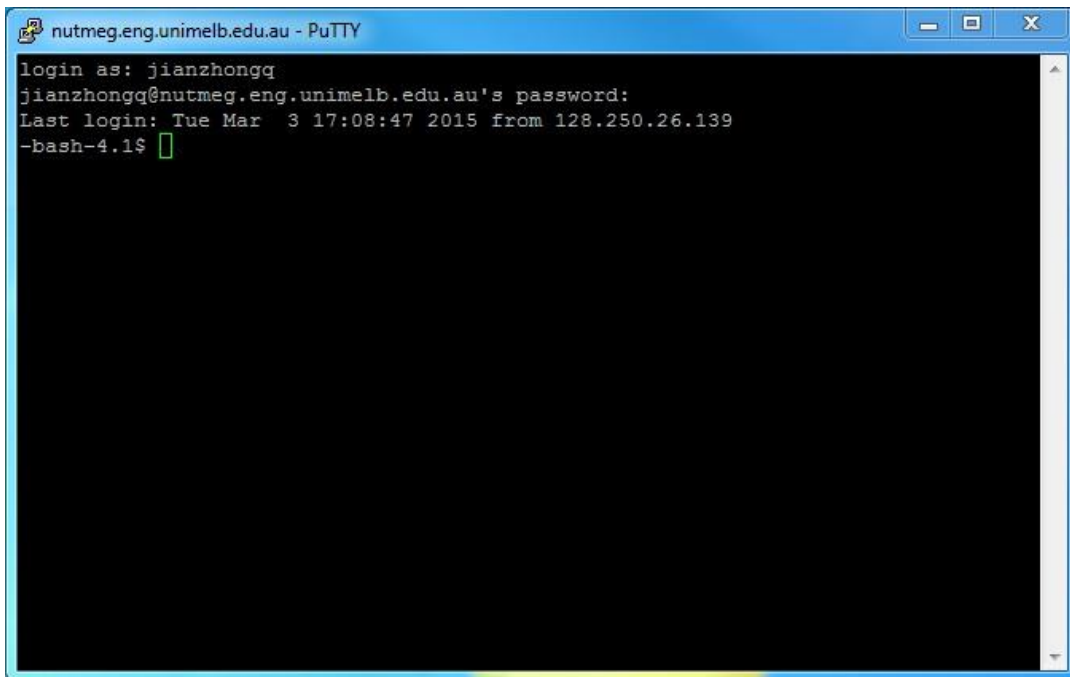## Goal: Compile and run your first Java program

Software: PuTTY (http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html),
FileZilla (http://filezilla-project.org/download.php?type=client).
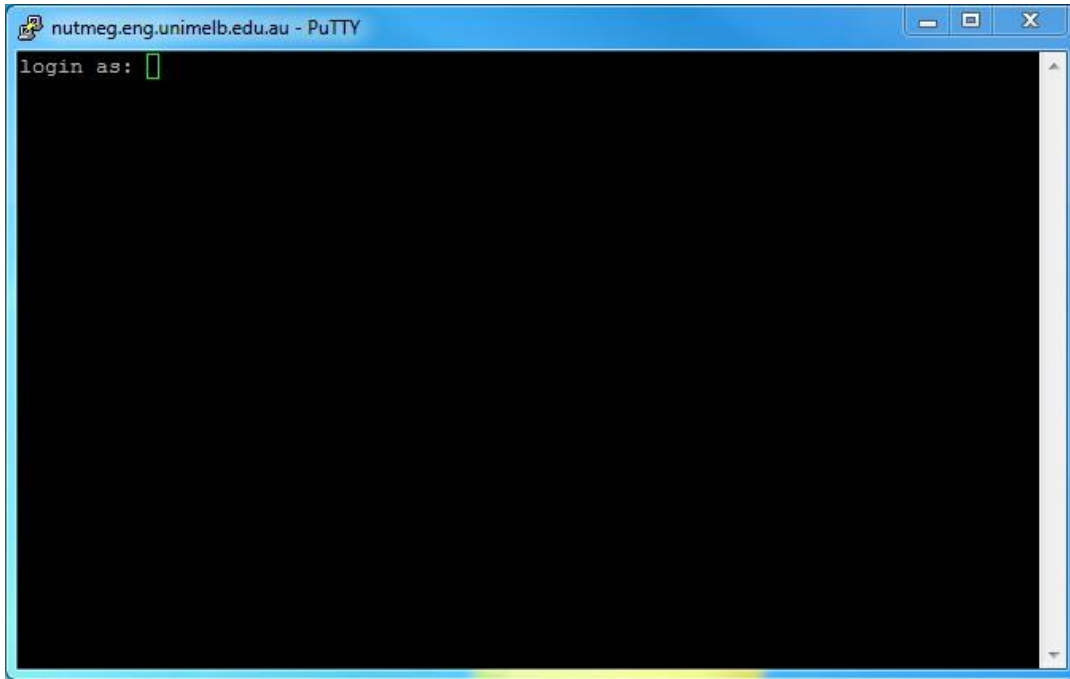
1. Use PuTTY to access a server

1.1 Launch PuTTY, enter "nutmeg.eng.unimelb.edu.au" as the "Host Name", and click "Open"
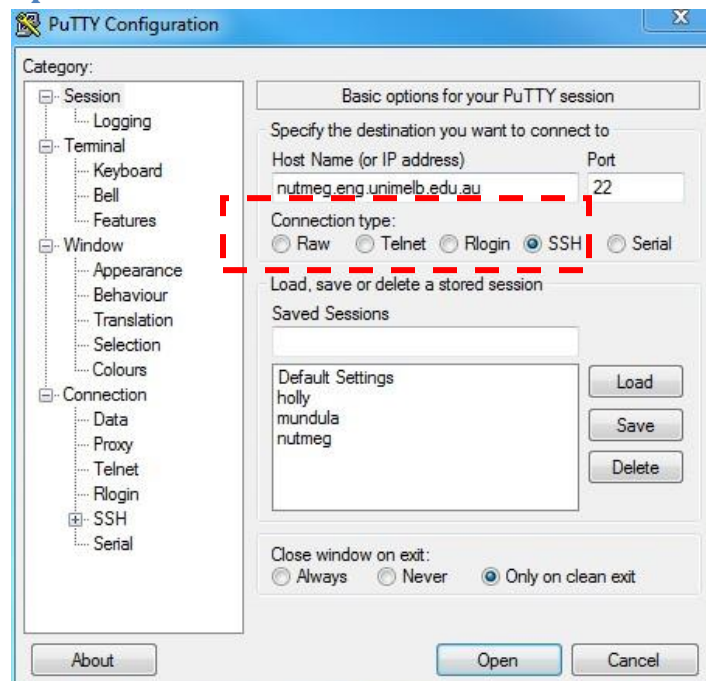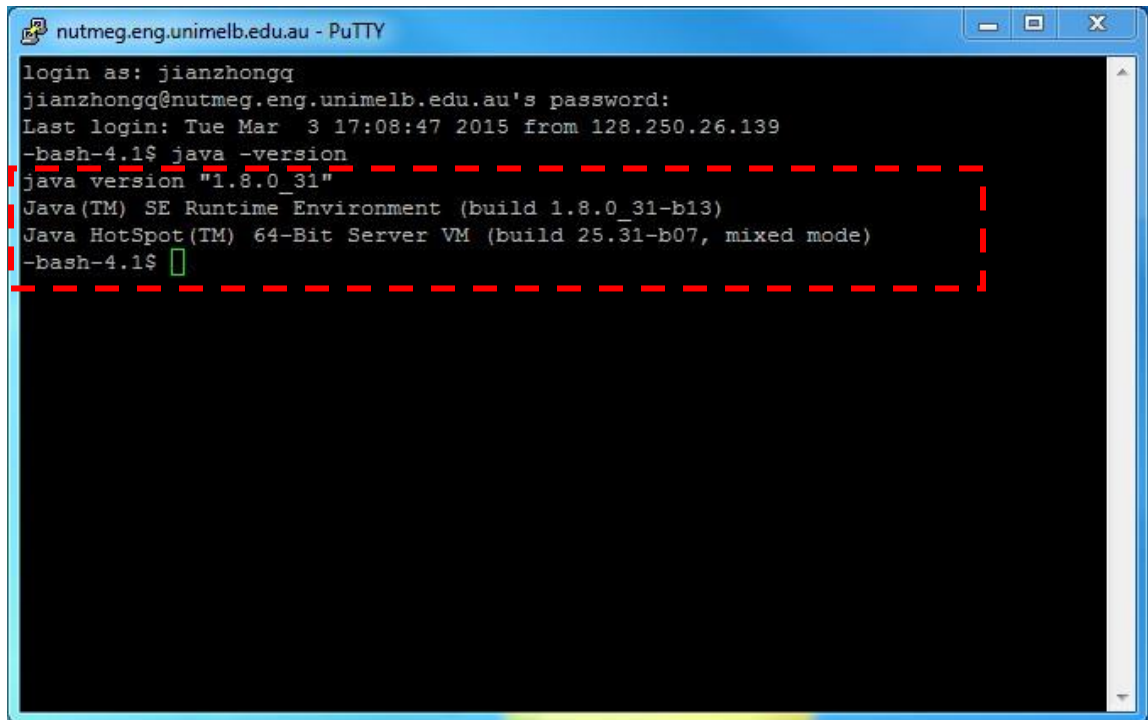
1.2 Click "Yes" on the pop-up window

1.3 Log in with your university account

1.4 Examine the Java Runtime Environment version with "java -version"

If the following screen shows up then the correct Java compiler has been installed.
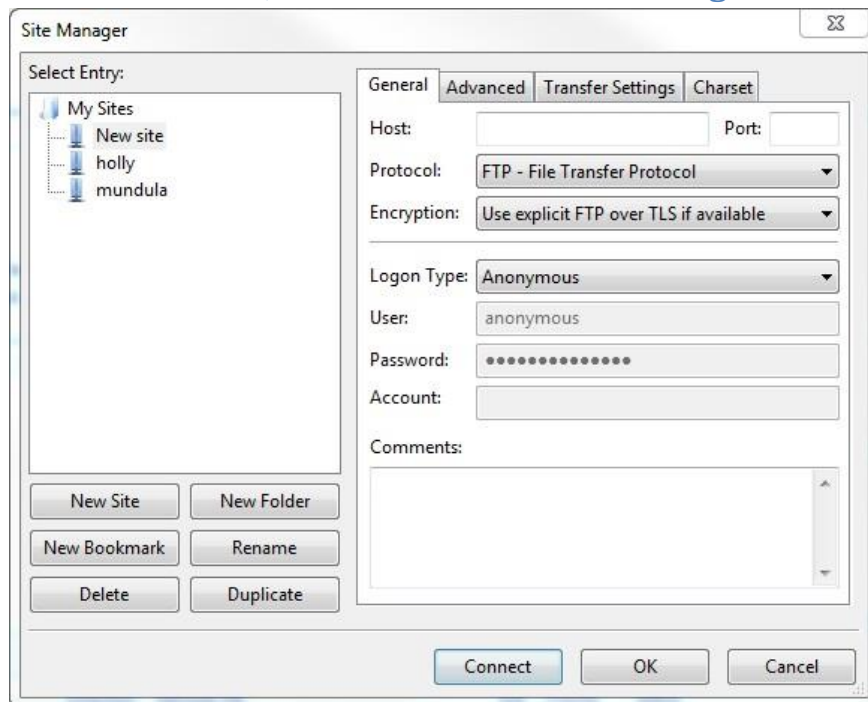
2 Use FileZilla to transfer files to the server (optional)

2.1 Launch FileZilla, click menu File->Site Manager->New Site

2.2 Create a new site with host name "nutmeg.eng.unimelb.edu.au", server type "SFTP – SSH File Transfer Protocol", logon type "Normal" and your university account name and password
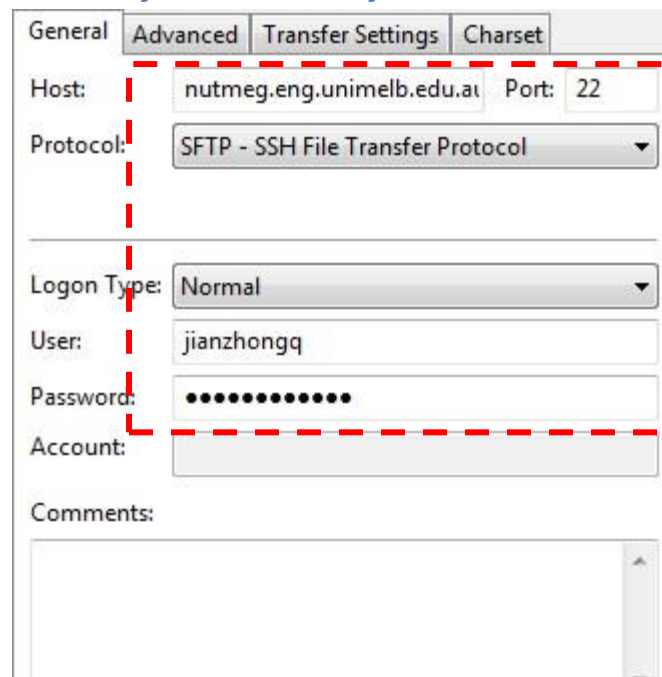
2.3 Connect

3 Compile and run a Java program

3.1 In Putty, create a folder "COMP90041" with "mkdir COMP90041"

3.2　View the files and folders under the current directory with "ls"

```
nutmeg.eng.unimelb.edu.au - PuTTY

login as: jianzhongq
jianzhongq@nutmeg.eng.unimelb.edu.au's password:
Last login: Tue Mar  3 17:08:47 2015 from 128.250.26.139
-bash-4.1$ java -version
java version "1.8.0_31"
Java(TM) SE Runtime Environment (build 1.8.0_31-b13)
Java HotSpot(TM) 64-Bit Server VM (build 25.31-b07, mixed mode)
-bash-4.1$ mkdir COMP90041
-bash-4.1$ ls
COMP90041
-bash-4.1$ []
```
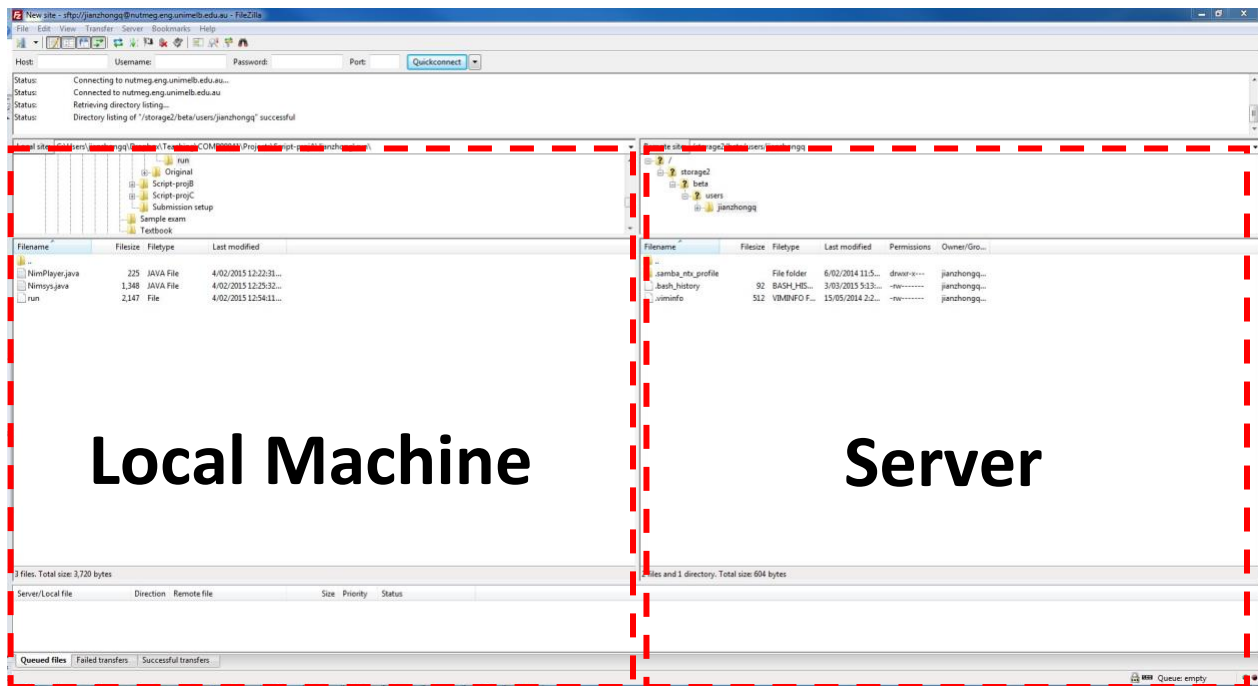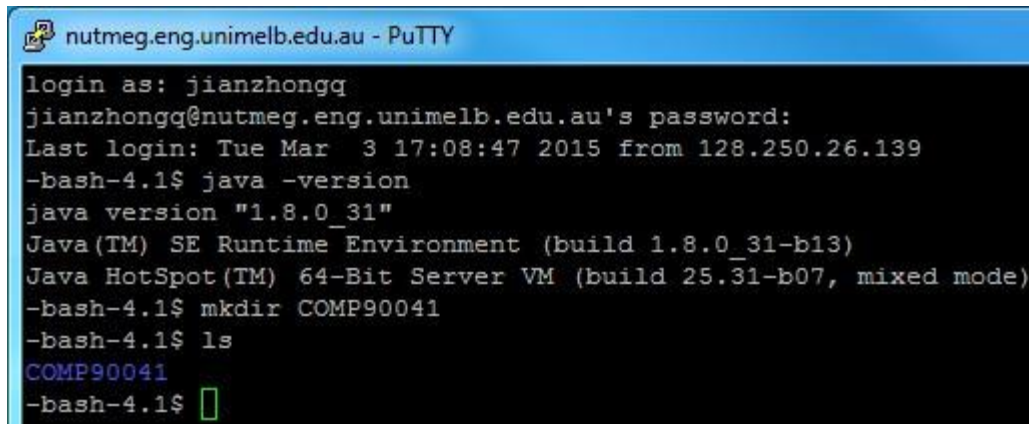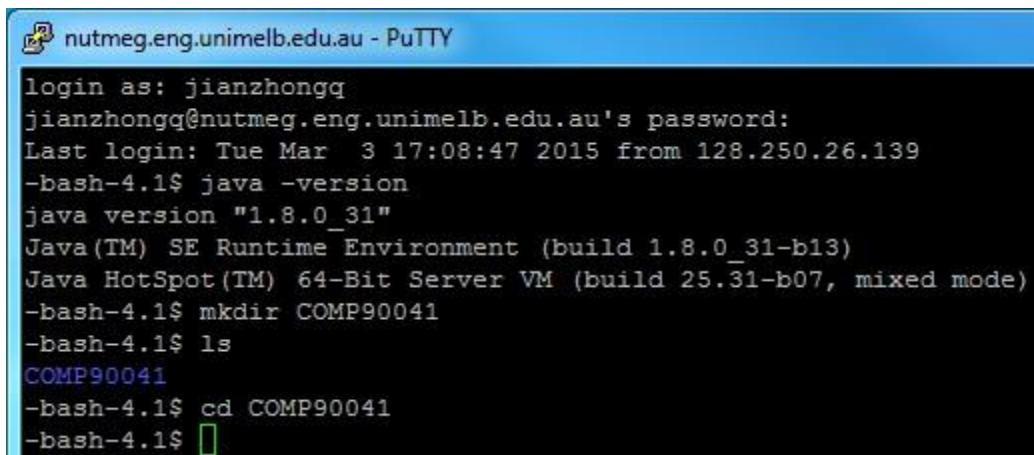
3.3　Enter the folder "COMP90041" with "cd COMP90041"

```
nutmeg.eng.unimelb.edu.au - PuTTY

login as: jianzhongq
jianzhongq@nutmeg.eng.unimelb.edu.au's password:
Last login: Tue Mar  3 17:08:47 2015 from 128.250.26.139
-bash-4.1$ java -version
java version "1.8.0_31"
Java(TM) SE Runtime Environment (build 1.8.0_31-b13)
Java HotSpot(TM) 64-Bit Server VM (build 25.31-b07, mixed mode)
-bash-4.1$ mkdir COMP90041
-bash-4.1$ ls
COMP90041
-bash-4.1$ cd COMP90041
-bash-4.1$ []
```
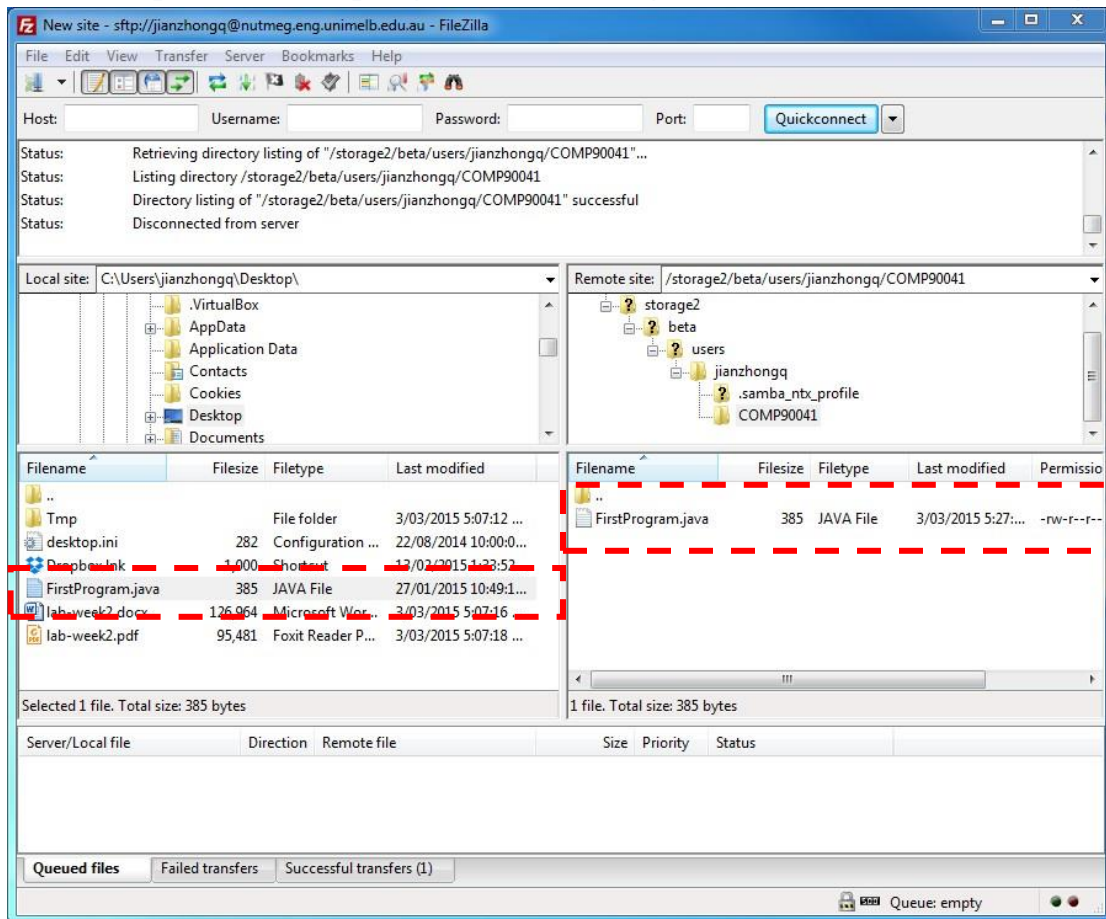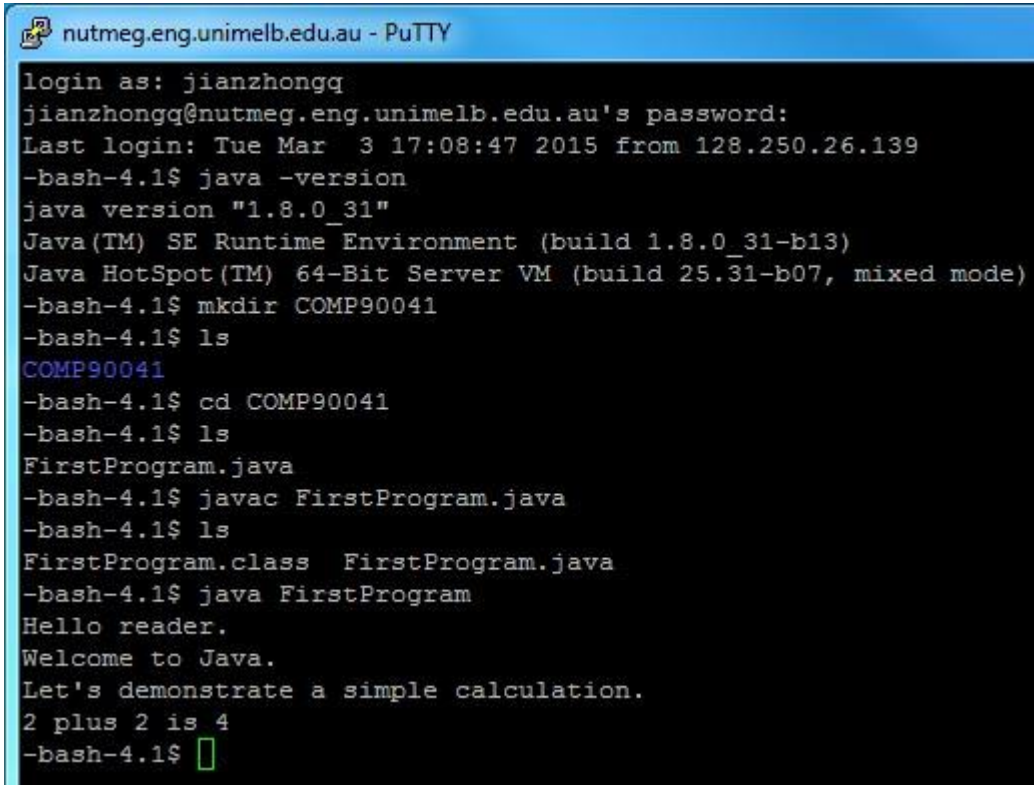
Note: can go back to the parent folder with "cd .."

3.4 Upload a Java program "FirstProgram.java" to "COMP90041/"

3.5 Compile the program with "javac FirstProgram.java"

3.6   Run the program with "java FirstProgram"

```
nutmeg.eng.unimelb.edu.au - PuTTY

login as: jianzhongq
jianzhongq@nutmeg.eng.unimelb.edu.au's password:
Last login: Tue Mar  3 17:08:47 2015 from 128.250.26.139
-bash-4.1$ java -version
java version "1.8.0_31"
Java(TM) SE Runtime Environment (build 1.8.0_31-b13)
Java HotSpot(TM) 64-Bit Server VM (build 25.31-b07, mixed mode)
-bash-4.1$ mkdir COMP90041
-bash-4.1$ ls
COMP90041
-bash-4.1$ cd COMP90041
-bash-4.1$ ls
FirstProgram.java
-bash-4.1$ javac FirstProgram.java
-bash-4.1$ ls
FirstProgram.class  FirstProgram.java
-bash-4.1$ java FirstProgram
Hello reader.
Welcome to Java.
Let's demonstrate a simple calculation.
2 plus 2 is 4
-bash-4.1$ []
```