1. Create a directory name hw1 (case sensitive) inside it114 directory located in your home directory. (Do not create the it114 directory. If you have applied for this course successfully under Unix server, you should see it114 directory under your home directory.)

2. Type the command cd hw1 to get into hw1 directory. Then, type the command pwd. At this time you should get the response:

   /courses/it114/f11/sbaraty/yourUNIXuserName/hw1

   where yourUNIXUserName is your personal Unix username.

3. Create a text file name memo.txt using emacs inside your new hw1 directory and write a few lines about yourself. (Use Unix and XEmacs reference cards from the webpage of the course, under Useful Links, if you have forgotten some of the Unix/emacs commands).

4. Copy the Hello114.java into hw1 directory ( unix cp command as we discussed in announcement 13), compile and run it. ( using java and javac commands.) Copy your interaction with Unix system during this experience and paste it to the end of memo.txt.

5. Change the name of the Hello114.java to Welcome.java. Remember the name of the java program should be the same as its file name without .java extension. Hence you need to change the name of the program too. Also, remember to update the comments in order to reflect the latest version of the program. Then, modify Welcome.java, so it prints the message "Welcome to cs114-it114, your first CS/IT course!" instead of the message "Hello, 114! This is your first java program". Then, compile and run the Welcome.java and copy and paste your experiment to the end of memo.txt. Again dont forget to update the comments too in order to reflect the latest version of the program. (There will be some points allocated for writing proper comments in this and all other assignments)
6. Describe in memo.txt what happens if you omit the following in Hello114.java and try to compile it (remember to omit them one by one)

(a) public (the one that belongs to the class)
(b) public (the one that belongs to main method)
(c) static
(d) void
(e) args
(f) main
(g) the ; following the first statement of the main method.

7. Describe in memo.txt what happens if you misspell the following in Hello114.java and try to compile it (misspell them one by one)

(a) public (any of them)
(b) static
(c) void
(d) args

(a) Copy the program UseArgument.java to your hw1 directory using the following command (assuming that you are in hw1 directory):

```
cp /home/sbaraty/java/UseArgument.java .
```

(b) Compile and run the program UseArgument.java using the following inputs passed to the program through command line argument:

i. Bob
ii. Java
iii. 1n14p
iv. Bob Merry
Write the output for each input in memo.txt.

8. Write a program name Classmates.java which accepts five inputs from command line and outputs the message: "input1, input2, input3, input4 and input5 are in the same class.". For example:

```
java Classmates Alex Lisa Bob Kim Joe
```

should output:

Alex, Lisa, Bob, Kim and Joe are in the same class.

Then try your program with the following outputs:

(a) Alex Lisa Bob Kim Joe
(b) Alex Lisa Joe
(c) Jim Bob
9. Write a program name Name.java which accepts your first and last name as two inputs from command-line and prints your full name inside a box made out of character v. Here is an example of execution:

```
java Name Saaid Baraty

vvvvvvvvvvvvvvvvvvvvvvvv
 v   v
   Saaid Baraty
   v   v
vvvvvvvvvvvvvvvvvvvvvvvv
```

Don’t forget to write comments for this program as explained in previous problem.

1 To be Delivered in hw1 directory

1. memo.txt
2. Welcome.java
3. Classmates.java
4. Name.java

Note that the file names should be EXACTLY (case sensitive) as specified in the assignment specification. Otherwise, I will not be able to collect them.

2 Hint

It is very important to start working on the assignment as soon as it is out so, if you get stuck some where in the homework you will have enough time to come and see me for help and/or discuss the issue with your classmates.