Comp 110/401
Appendix: Installing and Using Bare Bones Development Environment on Unix

Instructor: Prasun Dewan (FB 150, dewan@unc.edu)
INSTALL LATEST JDK AND JRE

Look at JDK Documentation on how to install it
You can create this folder in any existing folder on your computer.

A folder is another word for a directory.

You do not have to use the command line to create a folder. The command line command to create a folder is: `mkdir <folder name>` (mkdir is the command in Unix and similar systems, while `Java` refers to the context of the discussion in this particular slide).

Connected to login

```
bluetang(54) $ pwd
/afs/cs.unc.edu/home/dewan/java
bluetang(55) $
```
IN JAVA FOLDER CREATE PROJECT FOLDER FOR THIS WARMUP EXERCISE

```
bluetang(54)$ pwd
/afs/cs.unc.edu/home/dewan/java
bluetang(55)$ mkdir WarmupProject
```
In Project Folder Create Project-Source (src) and Project-Binary (bin) Folders
IN SOURCE FOLDER CREATE SOURCE-PACKAGE FOLDER
USE COMMAND INTERPRETER TO CD TO SOURCE PACKAGE FOLDER

See command Interpreter documentation on CD and Pasting Text such as Folder Names in Command Interpreter
USE A TEXT EDITOR TO CREATE NEW SOURCE JAVA FILE
Copy and Paste Code in Text Editor and Save File

package warmup;
import java.io.BufferedReader;
import java.io.InputStreamReader;
public class AGreeter {
    static BufferedReader inputStream = new BufferedReader(new InputStreamReader(System.in));
    public static void main(String[] args) {
        System.out.println("Hello World");
        if (args.length > 0) {
            System.out.println(args[0]);
        }
        try {
            System.out.println(inputStream.readLine());
        } catch (Exception e) {
            System.out.println("Could not read line");
            e.printStackTrace();
        }
    }
}
See Command Interpreter documentation on how to set PATH if you will use the barebones environment again.

Do not omit the space between bin and AGreeter.java.

The JDK binary folder name will be different on your computer.

```
bluetang(67)% /usr/java/bin/javac -d .../bin/AGreeter.java
bluetang(68)%
```
EXPLORE PACKAGE BINARY FOLDER

If you do not see the binary package folder or the binary file, and no errors were reported, check that you saved the source file (by say reopening it)
**Cd to Project Binary Folder and Run Java Interpeter with Full Class Name**

If you see the message saying the Java command was not found, then execute it the same way as you did javac – using the full file name with the JDK binary folder – and just replace javac with java in the full name you used.

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**Output**:  
```
Hello World
```
INPUT A LINE

```
bluetang(71)% java warmup.AGreeter
Hello World
Ni Hao
```
Hit Enter and See Output
Providing User Argument

bluetang(72) $ java warmup.AGreeter "Ca Va"
SEEING ECHOED ARGUMENT

```java
bluetang(72)% java warmup.Greeter "Ca Va"
Hello World
Ca Va
```

Echoed user argument
HIT CTRL-C TO TERMINATE PROGRAM WAITING FOR USER INPUT