Create a directory/folder with your SID (SP22\_BCS\_000) copy both Account.java and AccountTest.java in that folder.

Open two command windows. For this session we will call these window1 and window2. In both windows go to the directory where your source files are, e.g DBsession

In window1 compile the program by

javac -g \*.java

Copy the line below and paste it in window1

java -Xdebug -Xrunjdwp:transport=dt\_socket,address=8000,server=y,suspend=y AccountTest

You should see something like this

------------------------------------

Listening for transport dt\_socket at address: 8000

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Copy the line below and paste it in window2

jdb -connect com.sun.jdi.SocketAttach:hostname=localhost,port=8000

You should see something like this

------------------------------------

Set uncaught java.lang.Throwable

Set deferred uncaught java.lang.Throwable

Initializing jdb ...

VM Started: > No frames on the current call stack

------------------------------------

Now type ***stop at AccountTest:8***

You should see something like this

------------------------------------

Deferring breakpoint AccountTest:8.

It will be set after the class is loaded.

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Now type ***run***

You should see something like this

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Set deferred breakpoint AccountTest:8

Breakpoint hit: "thread=main", AccountTest.main(), line=8 bci=26

8 System.out.printf("%s balance: $%.2f%n",

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Now type ***dump account1***

You will see

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account1 = {

name: "Jane Green"

balance: 50.0

}

-------------------

Now type ***stop at AccountTest:17***

You should see something like this

------------------------------------

Set breakpoint AccountTest:17

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Now type ***cont***

You should see that your prompt has changed from main[1] to >

Now go to window1 and you will see that it is displaying

Enter deposit amount for account1:

Enter 125 and go back to window2 you will see

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Breakpoint hit: "thread=main", AccountTest.main(), line=17 bci=111

17 System.out.printf("%nadding %.2f to account1 balance%n%n",

main[1]

------------------------------------

Notice that the prompt is back to main[1]

Now type ***print depositAmount***

You will see that the 125 that you entered in window1 is now saved in variable depositAmount

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Following is a subset of commands that you can use to execute your program

* next - continue forward to the next line of code.
* step - similar, but steps into function calls too.
* step up - similar, but keeps going until the current function returns.
* cont - start running again.
* run - start over from the beginning.

**Getting information after hitting a breakpoint.**

* where - show where in the source code the program is.
* list - show a few lines of source code.
* print myVariable - show value of myVariable.
* dump myVariable - show lots of information about myVariale.
* methods Classname - list all the methods of the given class.