

CSCI3171
LAB 7
Zefeng Wang
B00770448

Exercise1: TheadEx3.java

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```
Last login: Sat Nov 23 22:22:49 on ttys004
[wangzefengdeMacBook-Pro:~ wangzefeng$ cd csci3171
[wangzefengdeMacBook-Pro:csci3171 wangzefeng$ cd lab7
[wangzefengdeMacBook-Pro:lab7 wangzefeng$ javac ThreadEx3.java
[wangzefengdeMacBook-Pro:lab7 wangzefeng$ java ThreadEx3
Han Solo awake!
Chewbacca awake!
Luke Skywalker awake!
Darth Vader awake!
BB-8 awake!
Sleep time for BB-8:1468 millisecs
Sleep time for Chewbacca:2887 millisecs
Sleep time for Luke Skywalker:622 millisecs
Sleep time for Han Solo:77 millisecs
Sleep time for Darth Vader:436 millisecs
Han Solo awake!
Sleep time for Han Solo:2099 millisecs
Darth Vader awake!
Sleep time for Darth Vader:2835 millisecs
Luke Skywalker awake!
Sleep time for Luke Skywalker:2469 millisecs
BB-8 awake!
Sleep time for BB-8:2739 millisecs
Han Solo awake!
Sleep time for Han Solo:146 millisecs
Han Solo awake!
Sleep time for Han Solo:2658 millisecs
Chewbacca awake!
Sleep time for Chewbacca:2830 millisecs
Luke Skywalker awake!
Sleep time for Luke Skywalker:1314 millisecs
Darth Vader awake!
Sleep time for Darth Vader:249 millisecs
Darth Vader awake!
Sleep time for Darth Vader:2146 millisecs
BB-8 awake!
Sleep time for BB-8:1154 millisecs
Luke Skywalker awake!
Sleep time for Luke Skywalker:2683 millisecs
Han Solo awake!
Sleep time for Han Solo:1820 millisecs
BB-8 awake!
Sleep time for BB-8:1041 millisecs
Darth Vader awake!
Sleep time for Darth Vader:1170 millisecs
Chewbacca awake!
Sleep time for Chewbacca:387 millisecs
Chewbacca awake!
Sleep time for Chewbacca:1960 millisecs
BB-8 awake!
Sleep time for BB-8:2693 millisecs
Luke Skywalker awake!
Sleep time for Luke Skywalker:85 millisecs
Chewbacca awake!
Sleep time for Chewbacca:488 millisecs
wangzefengdeMacBook-Pro:lab7 wangzefeng$ █
```

Exercise2: ThreadEx4.java

```
[wangzefengdeMacBook-Pro:lab7 wangzefeng$ javac ThreadEx4.java
[wangzefengdeMacBook-Pro:lab7 wangzefeng$ java ThreadEx4
Luke Skywalker: Throw LightSaber!
Chewbacca: Throw LightSaber!
BB-8: Throw LightSaber!
Han Solo: Throw LightSaber!
Darth Vader: Throw LightSaber!

Han Solo: Catch LightSaber!

Chewbacca: Catch LightSaber!
Darth Vader: Catch LightSaber!
BB-8: Catch LightSaber!

Luke Skywalker: Catch LightSaber!

Han Solo: Catch LightSaber!

Darth Vader: Throw LightSaber!
Luke Skywalker: Throw LightSaber!

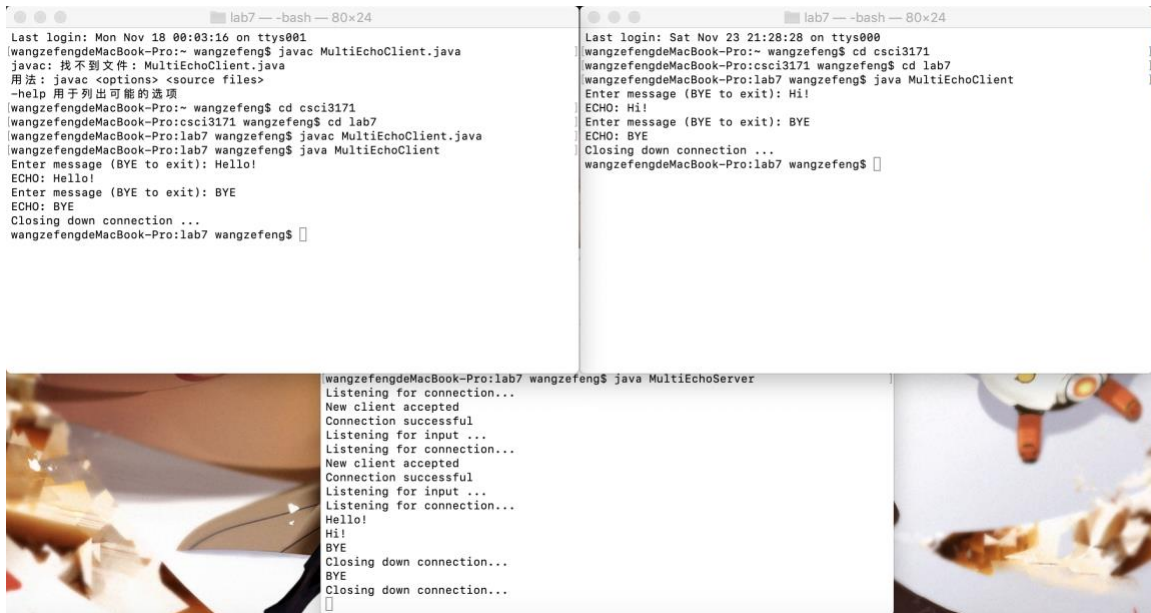
BB-8: Catch LightSaber!
Chewbacca: Catch LightSaber!

BB-8: Throw LightSaber!
Han Solo: Throw LightSaber!

Darth Vader: Catch LightSaber!
Luke Skywalker: Catch LightSaber!

Chewbacca: Throw LightSaber!
Darth Vader: Throw LightSaber!
Luke Skywalker: Throw LightSaber!
wangzefengdeMacBook-Pro:lab7 wangzefeng$
```

Exercise3: MultiEchoServer.java and MultiEchoClient.java



```
lab7 -- -bash -- 80x24
Last login: Mon Nov 18 00:03:16 on ttys001
wangzefengdeMacBook-Pro:~ wangzefeng$ javac MultiEchoClient.java
javac: 找不到文件: MultiEchoClient.java
用法: javac <options> <source files>
-help 用于列出可能的选项
wangzefengdeMacBook-Pro:~ wangzefeng$ cd csci3171
wangzefengdeMacBook-Pro:csci3171 wangzefeng$ cd lab7
wangzefengdeMacBook-Pro:lab7 wangzefeng$ javac MultiEchoClient.java
wangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient
Enter message (BYE to exit): Hello!
ECHO: Hello!
Enter message (BYE to exit): BYE
ECHO: BYE
Closing down connection ...
wangzefengdeMacBook-Pro:lab7 wangzefeng$

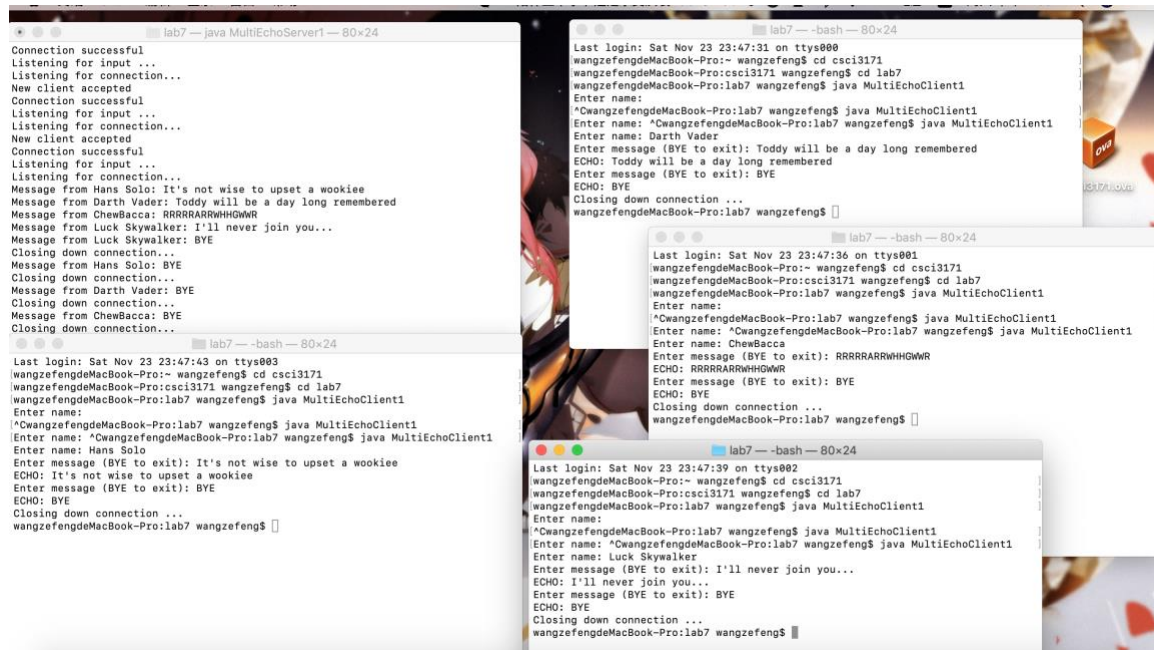
lab7 -- -bash -- 80x24
Last login: Sat Nov 23 21:28:28 on ttys000
wangzefengdeMacBook-Pro:~ wangzefeng$ cd csci3171
wangzefengdeMacBook-Pro:csci3171 wangzefeng$ cd lab7
wangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient
Enter message (BYE to exit): Hi!
ECHO: Hi!
Enter message (BYE to exit): BYE
ECHO: BYE
Closing down connection ...
wangzefengdeMacBook-Pro:lab7 wangzefeng$

wangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoServer
Listening for connection...
New client accepted
Connection successful
Listening for input ...
Listening for connection...
New client accepted
Connection successful
Listening for input ...
Listening for connection...
Hello!
Hi!
BYE
Closing down connection...
BYE
Closing down connection...

```

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Exercise4: MultiEchoServer1.java and MultiEchoClient1.java



```
lab7 — java MultiEchoServer1 — 80x24
Connection successful
Listening for input ...
Listening for connection...
New client accepted
Connection successful
Listening for input ...
Listening for connection...
New client accepted
Connection successful
Listening for input ...
Listening for connection...
Message from Hans Solo: It's not wise to upset a wookiee
Message from Darth Vader: Toddy will be a day long remembered
Message from ChewBacca: RRRRRRRHHHGWRR
Message from Luck Skywalker: I'll never join you...
Message from Luck Skywalker: BYE
Closing down connection...
Message from Hans Solo: BYE
Closing down connection...
Message from Darth Vader: BYE
Closing down connection...
Message from ChewBacca: BYE
Closing down connection...

lab7 — -bash — 80x24
Last login: Sat Nov 23 23:47:43 on ttys003
wangzefengdeMacBook-Pro:~ wangzefeng$ cd csci3171
wangzefengdeMacBook-Pro:csci3171 wangzefeng$ cd lab7
wangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name:
^CwangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name: ^CwangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name: Hans Solo
Enter message (BYE to exit): It's not wise to upset a wookiee
ECHO: It's not wise to upset a wookiee
Enter message (BYE to exit): BYE
ECHO: BYE
Closing down connection ...
wangzefengdeMacBook-Pro:lab7 wangzefeng$

lab7 — -bash — 80x24
Last login: Sat Nov 23 23:47:31 on ttys000
wangzefengdeMacBook-Pro:~ wangzefeng$ cd csci3171
wangzefengdeMacBook-Pro:csci3171 wangzefeng$ cd lab7
wangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name:
^CwangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name: ^CwangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name: Darth Vader
Enter message (BYE to exit): Toddy will be a day long remembered
ECHO: Toddy will be a day long remembered
Enter message (BYE to exit): BYE
ECHO: BYE
Closing down connection ...
wangzefengdeMacBook-Pro:lab7 wangzefeng$

lab7 — -bash — 80x24
Last login: Sat Nov 23 23:47:36 on ttys001
wangzefengdeMacBook-Pro:~ wangzefeng$ cd csci3171
wangzefengdeMacBook-Pro:csci3171 wangzefeng$ cd lab7
wangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name:
^CwangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name: ^CwangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name: ChewBacca
Enter message (BYE to exit): RRRRRRRHHHGWRR
ECHO: RRRRRRRHHHGWRR
Enter message (BYE to exit): BYE
ECHO: BYE
Closing down connection ...
wangzefengdeMacBook-Pro:lab7 wangzefeng$

lab7 — -bash — 80x24
Last login: Sat Nov 23 23:47:39 on ttys002
wangzefengdeMacBook-Pro:~ wangzefeng$ cd csci3171
wangzefengdeMacBook-Pro:csci3171 wangzefeng$ cd lab7
wangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name:
^CwangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name: ^CwangzefengdeMacBook-Pro:lab7 wangzefeng$ java MultiEchoClient1
Enter name: Luck Skywalker
Enter message (BYE to exit): I'll never join you...
ECHO: I'll never join you...
Enter message (BYE to exit): BYE
ECHO: BYE
Closing down connection ...
wangzefengdeMacBook-Pro:lab7 wangzefeng$
```