Bryan Arnold

11/15/18

CSE 3300

Programming Assignment 3

Exercise 0

Here is an example scenario of output generated by the client and server interaction (**NOTE:** although \n isn't explicitly printed, it does still exist as the console just prints out a newline instead of showing \n). The server numbers in steps 5 and 7 are 1475160574 and 1475160575 respectively:

First message to the server: ex0 137.99.3.212-3300 137.99.81.245-4764 6389 B.Arnold

Server response to first message: CSE 3300 Server Thu Nov 15 19:49:08 2018

OK 6390 B.Arnold 1475160574

Second message to server: ex0 6391 1475160575

Second server response: CSE 3300 Server Thu Nov 15 19:49:08 2018 OK 1475160575

Process finished with exit code 0

Code

```
newSocket.connect((hostIP, hostPort))
stringToSend = ('ex0' + ' ' + str(hostIP) + '-' + str(hostPort) + ' ' + ipAddress + '-
' + str(port) + ' ' + str(usernum) + ' ' + studentName + '\n').encode()
data = newSocket.recv(recvBuf).decode()
```

```
print('An error has occurred with sending the first message to the server: ' +
data)
# Close connection of the socket to the server
newSocket.close()
```

Exercise 1

Here is an example scenario of output generated by the client and server interaction (**NOTE:** although \n isn't explicitly printed, it does still exist as the console just prints out a newline instead of showing \n). The three server numbers received from the server were 816664702, 1589221326, and 816664703:

First message to the server: ex1 137.99.3.212-3300 137.99.81.245-61462 1742 B.Arnold

Server response to first message: CSE 3300 Server Thu Nov 15 19:55:32 2018

OK 1743 B.Arnold 816664702

Message from the server to local machine waiting: CSE 3300 server calling 1589221326

Second message to server: 816664703 1589221327

Server response to second message: CSE 3300 Server Thu Nov 15 19:55:32 2018 OK 816664703

Process finished with exit code 0

Code

```
startSocket.connect((hostIP, hostPort))
```

```
finalData = startSocket.recv(recvBuffFinal).decode()
startSocket.close()
```