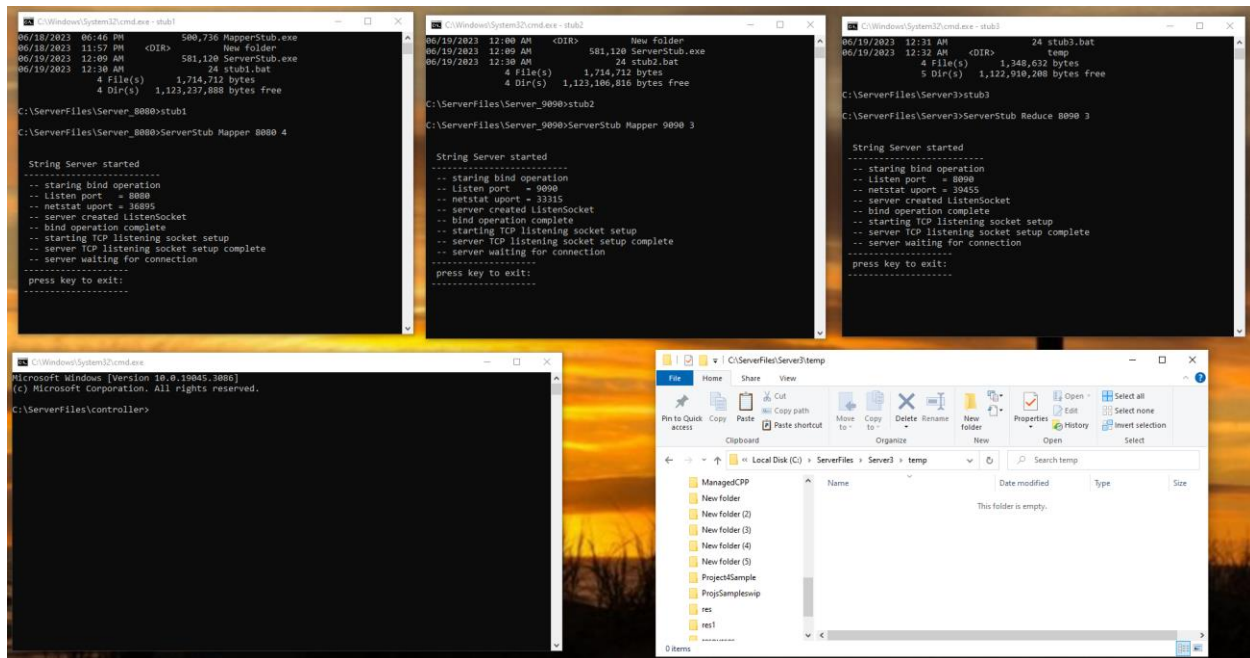


Screen shots for CSE 687 OOD project# 4

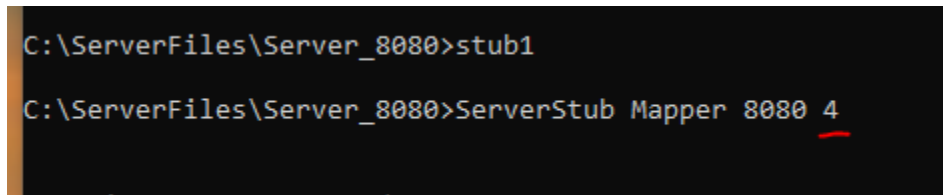
MapReduce.

Step1.

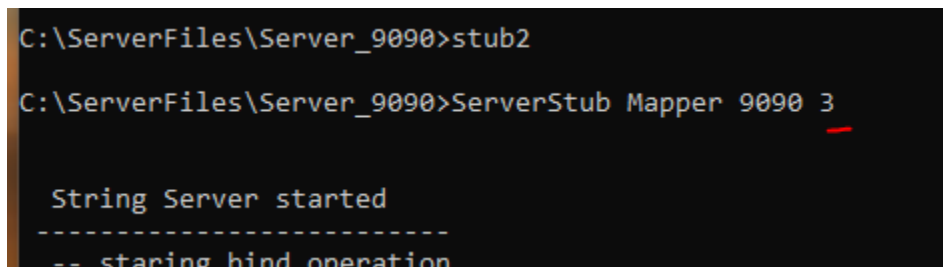
Started **stub1** on port **8080**, **stub2** on port **9090** and **stub3** on port **8090**. Temp, directory on server3 is currently empty. Ports **8080** and **9090** only have **mappers** and port **8090** only have **reducer**.



On Port 8080 server is running mapper with 4 threads.



On Port 9090 server is running mapper with 3 threads.



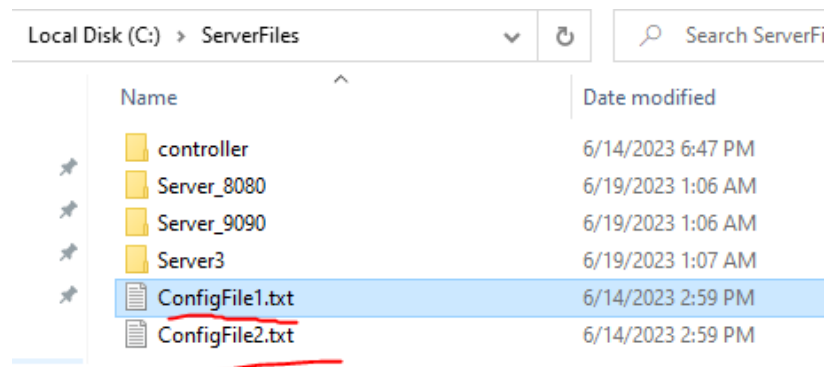
On port 8090 server is running reducer with 3 threads.

```
C:\ServerFiles\Server3>stub3  
C:\ServerFiles\Server3>ServerStub Reduce 8090 3
```

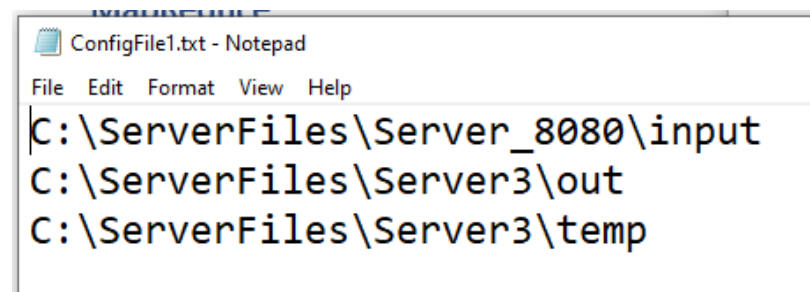
The controller now runs 2 stubs, one that listens on 8080 and other that listens on 9090.

```
C:\ServerFiles\controller>type runMapperController.bat  
controller 8080 9090
```

The controller reads input, output and temp file locations from a config file that is stored on the server.

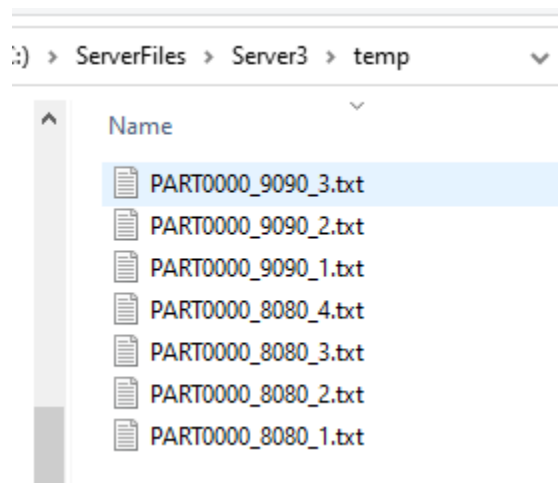


The contents of the ConfigFile are as below.

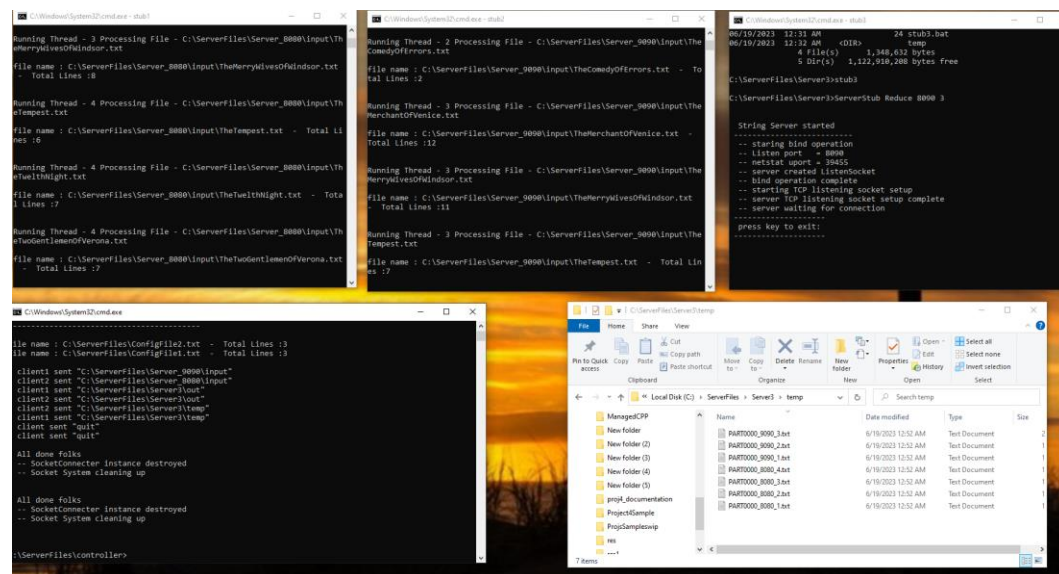


These contents are transmitted to server listening on port 8080 and 9090. Both servers will receive contents from two different config files specifying where output needs to be created. In this case the outputs are created on a central-server server 3 and the outputs from both ports are merged and aggregated to produce a reducer.txt.

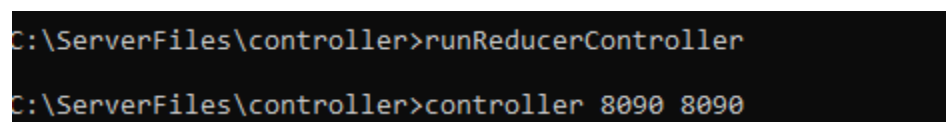
Mapper that runs on 8080 has produced 4 output files and one that runs on 9090 has produced 3 output files.



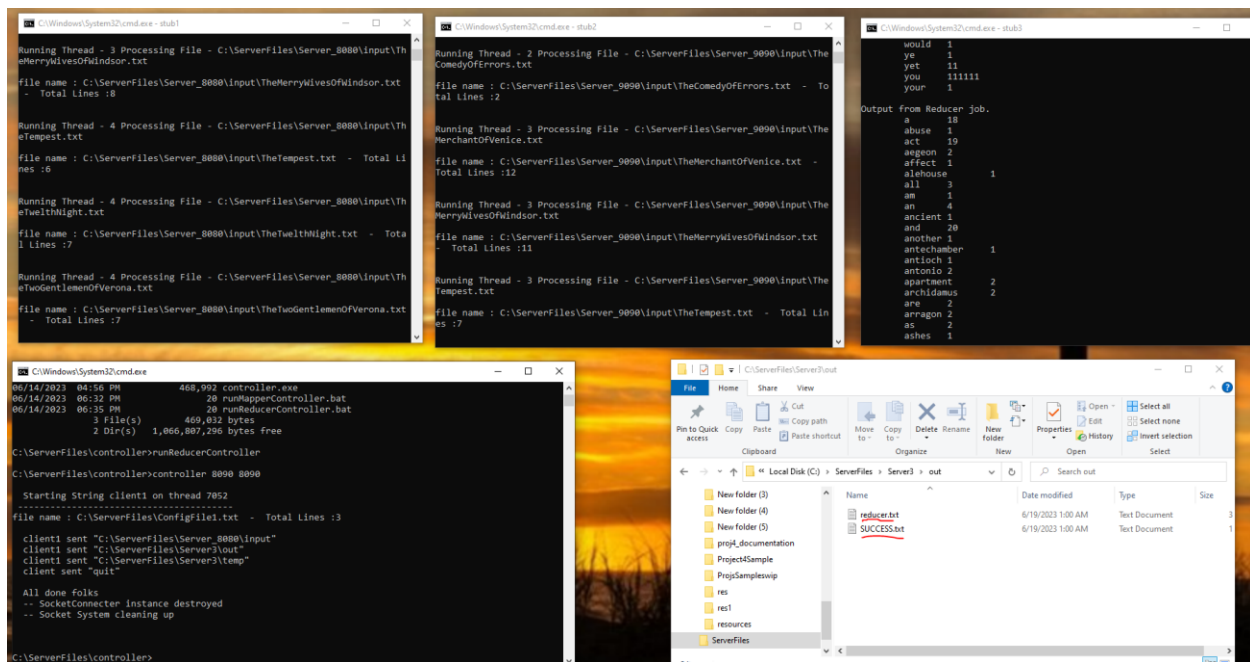
There are some output messages on both servers as well.



The controller then calls the reducer stub on port 8090.



The reducer also produces two files, one reducer.txt and the other a SUCCESS.txt file.



The word count is now aggregated as seen in a snapshot of the reducer.txt file.

```

reducer.txt - Notepad
File Edit Format View Help
a - 18
abuse - 1
act - 19
aegeon - 2
affect - 1
alehouse - 1
all - 3
am - 1
an - 4
ancient - 1
and - 20
another - 1
antechamber - 1

```

To Run Demo.

Unzip contents of DistributedServerProj4Demo.zip to c drive.

From directory server_8080 start stub by running stub1.bat. Similarly, from Server_9090 run stub2.bat and from Server3 run stub3.bat.

Once all three servers are up run controller by running runMapperController.bat and then run the reducer by running runReducerController.bat. Outputs from both servers will be produced on server3.