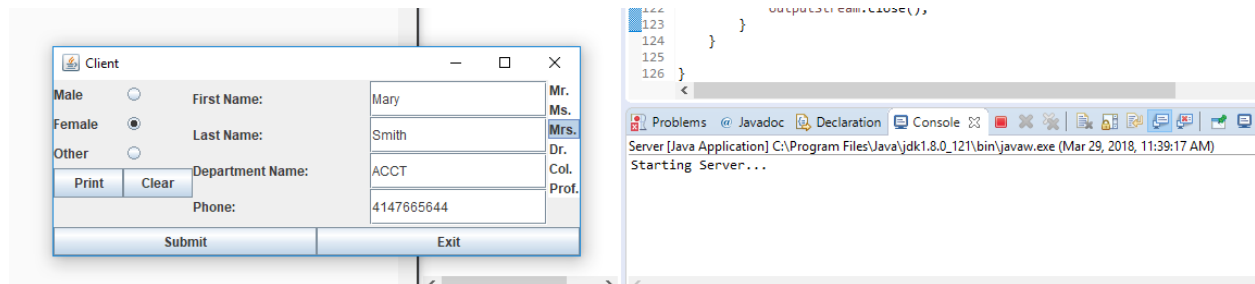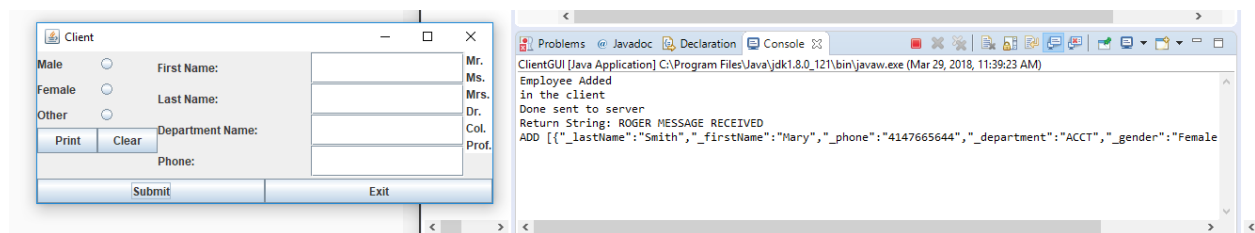(FULL text from server console and gui console is at bottom of pdf)
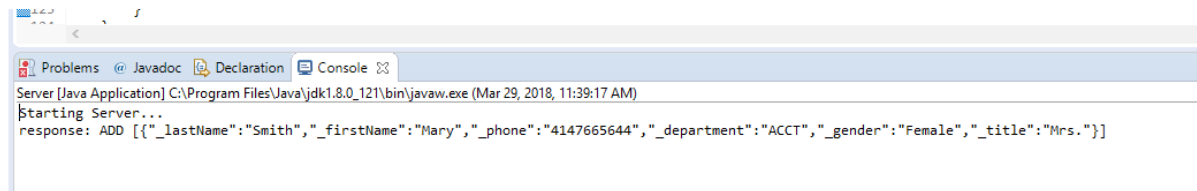
After starting Server and ClientGUI, snapshot before adding Mary into server:
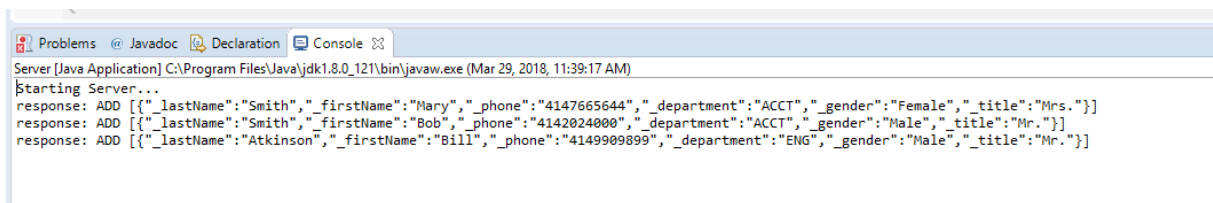

Snapshot After clicking submit which adds Mary to the server: (displaying gui console)
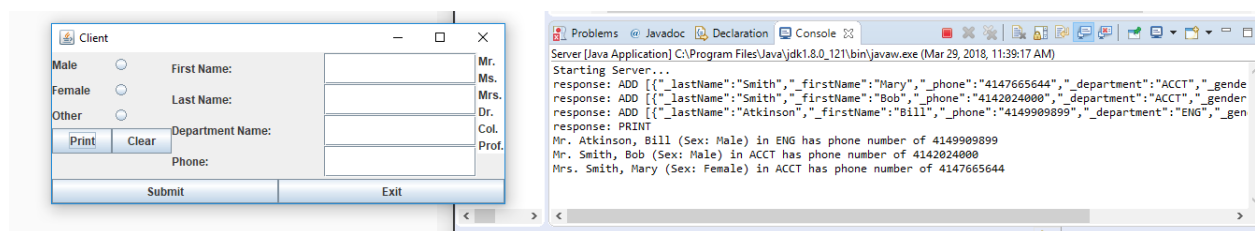

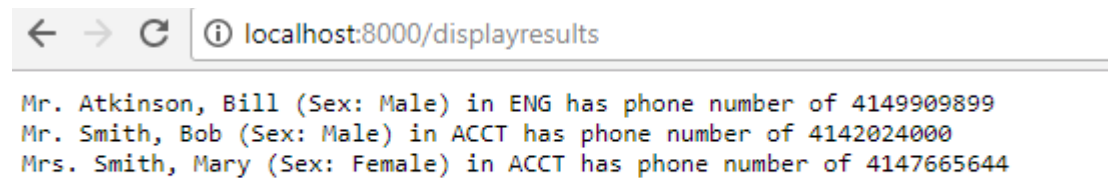(now displaying server console after adding Mary)

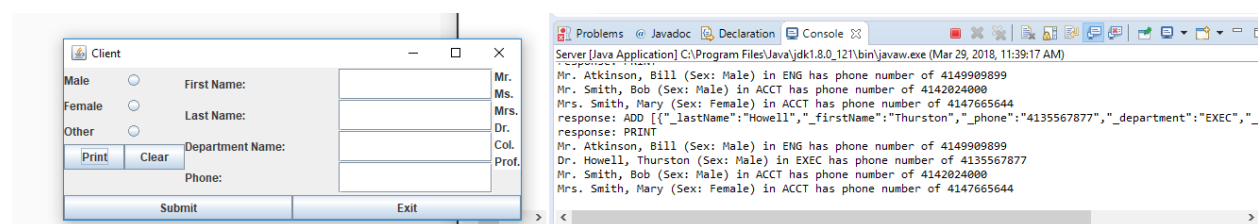Snapshot after adding two more employees to server:

Snapshot after clicking print (prints out sorted server-side directory):

Display on webpage after sending a displayresults http request to our server(prints contents of its directory to webpage):


```
← → C  ⓘ localhost:8000/displayresults

Mr. Atkinson, Bill (Sex: Male) in ENG has phone number of 4149909899
Mr. Smith, Bob (Sex: Male) in ACCT has phone number of 4142024000
Mrs. Smith, Mary (Sex: Female) in ACCT has phone number of 4147665644
```

Snapshot after adding Thurston and then clicking print:

Snapshot after clicking clear and then print:
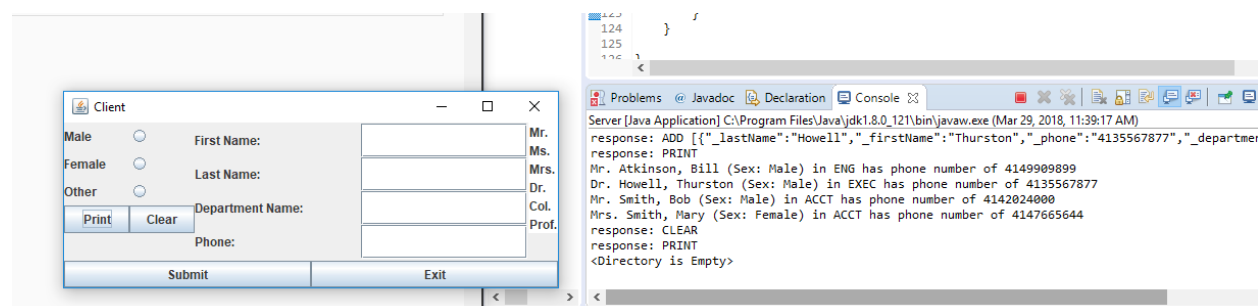
Snapshot after clearing directory and then proceeding to add/print out another employee:

Snapshot of displayresults webpage after adding last employee:

Console output from Server:

Starting Server...
response: ADD
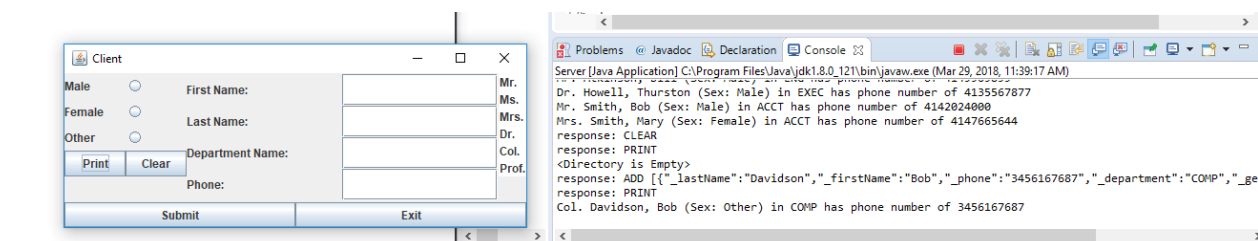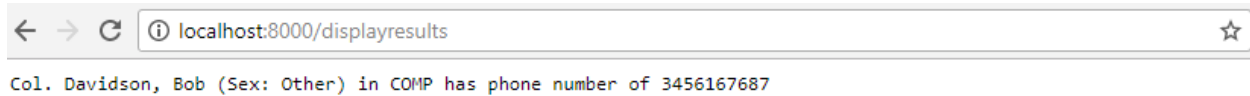[{"_lastName":"Smith","_firstName":"Mary","_phone":"4147665644","_department":"ACCT","_gender":"Female","_title":"Mrs."}]
response: ADD
[{"_lastName":"Smith","_firstName":"Bob","_phone":"4142024000","_department":"ACCT","_gender":"Male","_title":"Mr."}]
response: ADD
[{"_lastName":"Atkinson","_firstName":"Bill","_phone":"4149909899","_department":"ENG","_gender":"Male","_title":"Mr."}]
response: PRINT
Mr. Atkinson, Bill (Sex: Male) in ENG has phone number of 4149909899
Mr. Smith, Bob (Sex: Male) in ACCT has phone number of 4142024000
Mrs. Smith, Mary (Sex: Female) in ACCT has phone number of 4147665644
response: ADD
[{"_lastName":"Howell","_firstName":"Thurston","_phone":"4135567877","_department":"EXEC","_gender":"Male","_title":"Dr."}]
response: PRINT
Mr. Atkinson, Bill (Sex: Male) in ENG has phone number of 4149909899
Dr. Howell, Thurston (Sex: Male) in EXEC has phone number of 4135567877
Mr. Smith, Bob (Sex: Male) in ACCT has phone number of 4142024000
Mrs. Smith, Mary (Sex: Female) in ACCT has phone number of 4147665644
response: CLEAR
response: PRINT
<Directory is Empty>
response: ADD
[{"_lastName":"Davidson","_firstName":"Bob","_phone":"3456167687","_department":"COMP","_gender":"Other","_title":"Col."}]
response: PRINT
Col. Davidson, Bob (Sex: Other) in COMP has phone number of 3456167687

Console output from ClientGUI:

Employee Added
in the client
Done sent to server
Return String: ROGER MESSAGE RECEIVED
ADD
[{"_lastName":"Smith","_firstName":"Mary","_phone":"4147665644","_department":"ACCT","_gender":"Female","_title":"Mrs."}]
Employee Added
in the client
Done sent to server
Return String: ROGER MESSAGE RECEIVED
ADD
[{"_lastName":"Smith","_firstName":"Bob","_phone":"4142024000","_department":"ACCT","_gender":"Male","_title":"Mr."}]
Employee Added
in the client
Done sent to server
Return String: ROGER MESSAGE RECEIVED
ADD
[{"_lastName":"Atkinson","_firstName":"Bill","_phone":"4149909899","_department":"ENG","_gender":"Male","_title":"Mr."}]
in the client
Done sent to server
Return String: ROGER MESSAGE RECEIVED
Employee Added
in the client
Done sent to server
Return String: ROGER MESSAGE RECEIVED
ADD
[{"_lastName":"Howell","_firstName":"Thurston","_phone":"4135567877","_department":"EXEC","_gender":"Male","_title":"Dr."}]
in the client
Done sent to server
Return String: ROGER MESSAGE RECEIVED
in the client
Done sent to server
Return String: ROGER MESSAGE RECEIVED
in the client
Done sent to server
Return String: ROGER MESSAGE RECEIVED
Employee Added
in the client
Done sent to server
Return String: ROGER MESSAGE RECEIVED
ADD
[{"_lastName":"Davidson","_firstName":"Bob","_phone":"3456167687","_department":"COMP","_gender":"Other","_title":"Col."}]
in the client
Done sent to server
Return String: ROGER MESSAGE RECEIVED