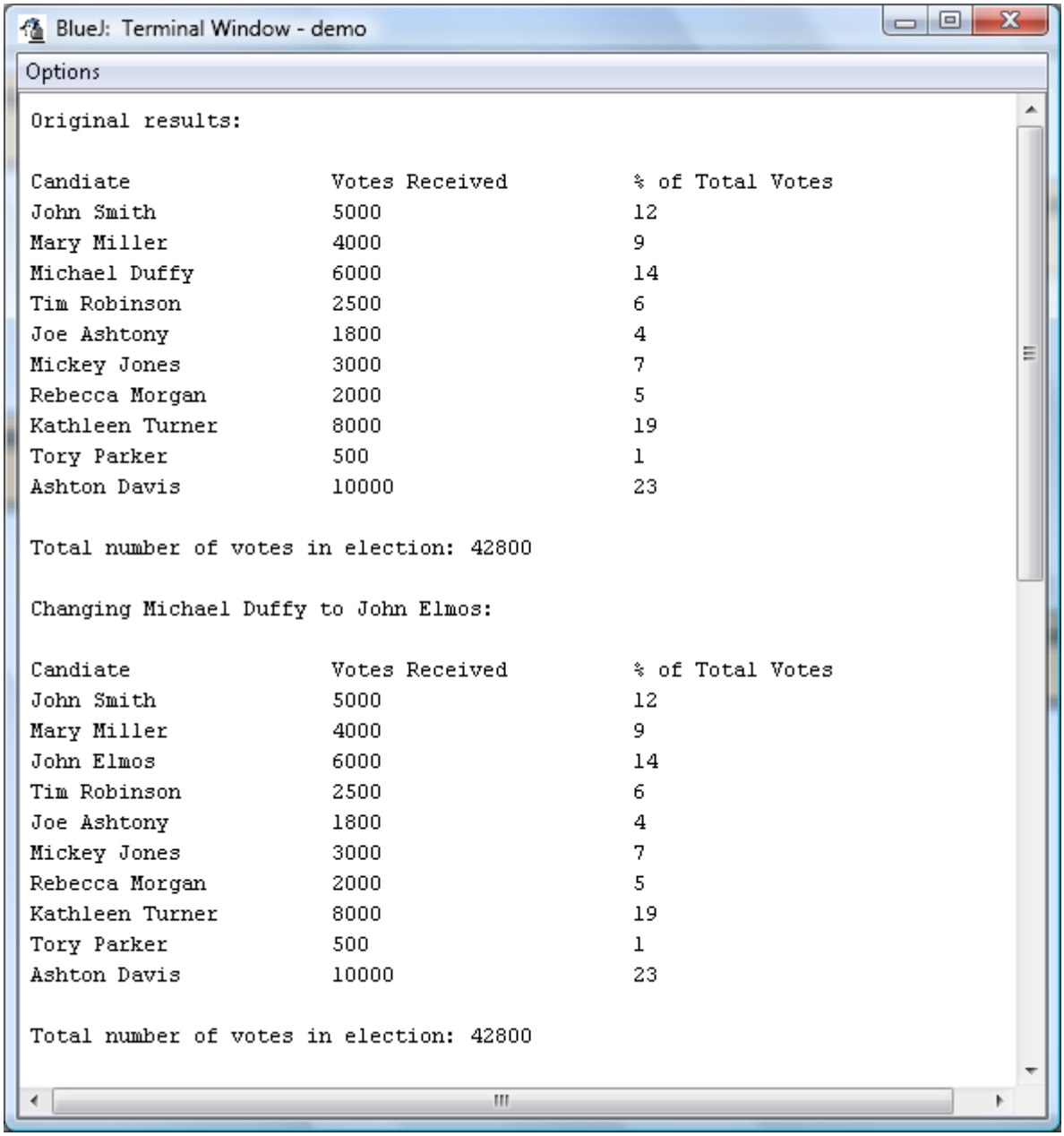
16.02 Assignment Instructions

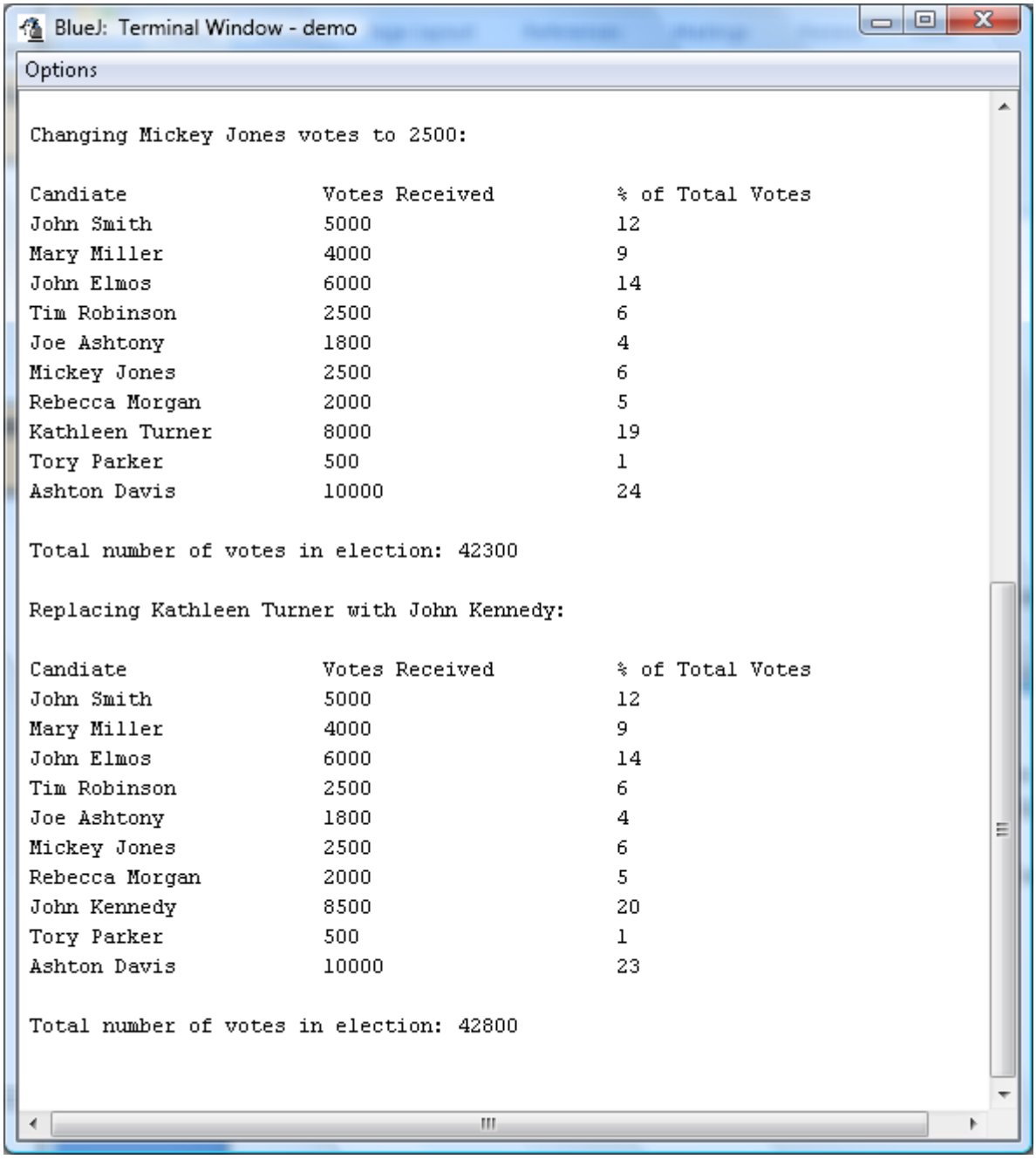
Instructions: For this assignment, you are going to create replacement methods.

1. Create a folder called **16.02 Assignment** in your Module 16 assignments folder.
2. Copy your **TestCandidate.java** to a new class **TestCandidate3.java**.
3. Modify your election array to add in the following people.

Candidate	Vote
Mickey Jones	3000
Rebecca Morgan	2000
Kathleen Turner	8000
Tory Parker	500
Ashton Davis	10000

4. Create the following methods for modify election results.
    a. Create a method that will find a particular candidate by name and change the name for that candidate. Call it **`replaceName()`**. Its arguments should include the array, a name to find, and the replacement name.
    b. Create a method that will find a particular candidate by name and change the number of votes for that candidate. Call it **`replaceVotes()`**. Its arguments should include the array, a name to find, and the replacement votes.
    c. Create a method that will find a particular candidate by name and replace both the name and number of votes for that candidate. Call it **`replaceCandidate()`**. Its arguments should include the array, a name to find, the replacement name, and the replacement votes.
    d. Test your methods by changing Michael Duffy's name to John Elmos. Then change the number of votes for Mickey Jones to 2500. Finally replace Kathleen Turner's name and votes with John Kennedy and 8500 votes. You should call **`printResults()`** first and then after each change. You output should be similar to output shown below: Remember to turn on unlimited buffering in BlueJ so that you can see the results.


BlueJ: Terminal Window - demo
Options
Original results:
Candiate Votes Received % of Total Votes
John Smith 5000 12
Mary Miller 4000 9
Michael Duffy 6000 14
Tim Robinson 2500 6
Joe Ashtony 1800 4
Mickey Jones 3000 7
Rebecca Morgan 2000 5
Kathleen Turner 8000 19
Tory Parker 500 1
Ashton Davis 10000 23
Total number of votes in election: 42800
Changing Michael Duffy to John Elmos:
Candiate Votes Received % of Total Votes
John Smith 5000 12
Mary Miller 4000 9
John Elmos 6000 14
Tim Robinson 2500 6
Joe Ashtony 1800 4
Mickey Jones 3000 7
Rebecca Morgan 2000 5
Kathleen Turner 8000 19
Tory Parker 500 1
Ashton Davis 10000 23
Total number of votes in election: 42800



5. Now create a class **`TestCandidate4`** and save it as **TestCandidate4.java**.
    a. Create the same items as for **`TestCandidate3`**; however, use an ArrayList instead.
    b. Output should still look the same as for **`TestCandidate3`**.