16.04 Assignment Instructions

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

1. Create a folder called **16.04 Assignment** in your module 16 assignments folder.
2. Copy your **TestCandidate5.java** to a new class **TestCandidate7.java**.
3. Create the following methods for inserting election results.
   a. Create a method that will delete a particular candidate, by position in the election array. Call it **deleteByLoc()**. Its arguments should include the array, and a position to delete.
   b. Create a method that will find a particular candidate by name and delete that candidate. Call it **deleteByName()**. Its arguments should include the array the name of the candidate to delete.
   c. Remember that, since you are working with an array, you need to modify your other methods so that they still work even if the array has some null entries.
   d. Test your methods by first deleting location 6 and then deleting Kathleen Turner. You should call **printResults()** first and then after each delete. Your 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


Deleted location 6:

Candiate                 Votes Received          % of Total Votes
John Smith               5000                    12
Mary Miller              4000                    10
Michael Duffy            6000                    15
Tim Robinson             2500                    6
Joe Ashtony              1800                    4
Mickey Jones             3000                    7
Kathleen Turner          8000                    20
Tory Parker              500                     1
Ashton Davis             10000                   25


Total number of votes in election: 40800
```
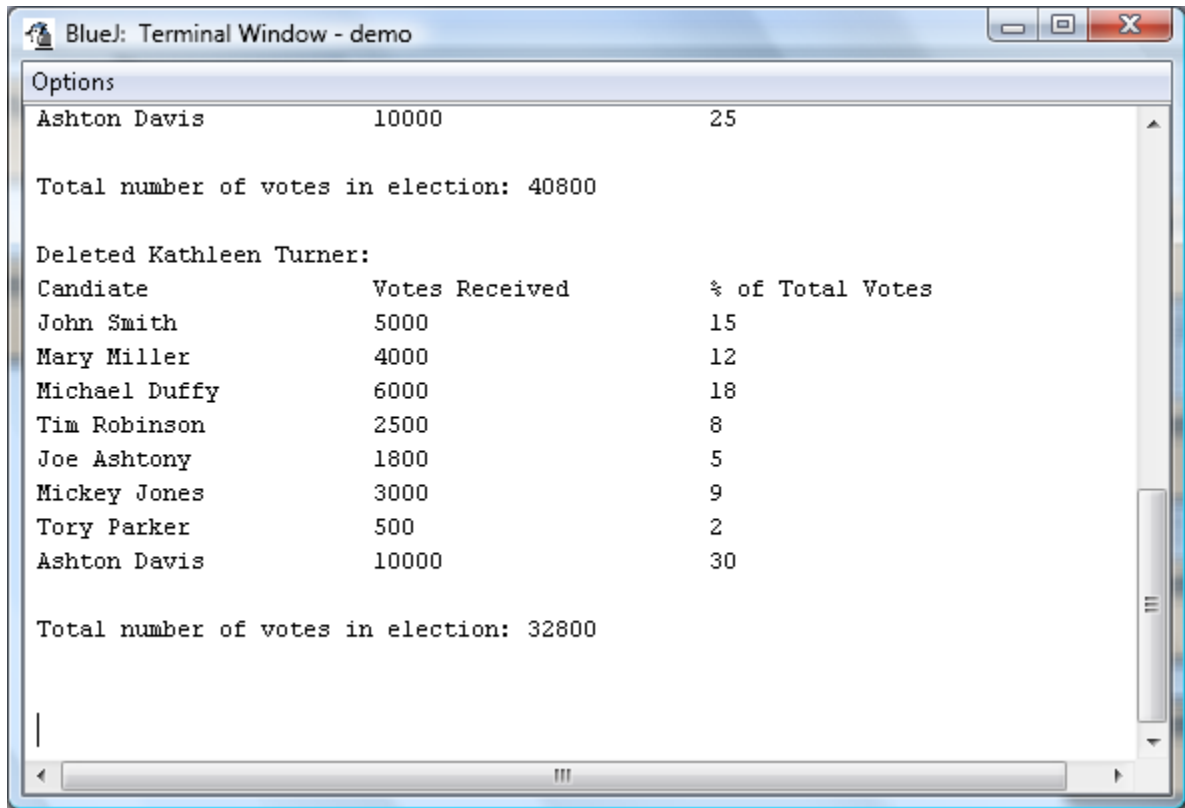
```
BlueJ: Terminal Window - demo

Options

Ashton Davis            10000               25


Total number of votes in election: 40800


Deleted Kathleen Turner:
Candiate                Votes Received      % of Total Votes
John Smith              5000                15
Mary Miller             4000                12
Michael Duffy           6000                18
Tim Robinson            2500                8
Joe Ashtony             1800                5
Mickey Jones            3000                9
Tory Parker             500                 2
Ashton Davis            10000               30


Total number of votes in election: 32800


|
```

4. Now create a class **TestCandidate8** and save it as **TestCandidate8.java**.
   a. Create the same items as for **TestCandidate7**; however, use an ArrayList instead.
   b. Output should look like that for **TestCandidate7**.