**Project Name:** The project #, name of your system, and the team#

**Test Stage:** Indicate whether it is a unit test or a system test.

**Test Date:** The date the test was performed.

Test Case ID#: A unique ID is required. Decide on a naming convention and use numbering. Example: Ballot Shuffle 1

Name(s) of Testers: List the names of anyone involved in running this test case.

**Test Description:** Describe briefly the test objective.

**Automated:** Indicate if the test is completely automated or being checked manually. (If you have methods running the tests and checking results, select "yes". If you are manually checking results, indicate manual by selecting the "no.")

**Results:** Indicate if the test passed or failed.

**Step #:** You will be listing the test steps in order. This number is the step number in the process.

**Test Step Description:** Details of the test step.

**Test Data:** What the test data will be for this step. Be clear on what the input data will be. If using a specific file, be clear on the name.

**Expected Result:** What result are you expecting from the program component or system.

**Actual Result:** What result were returned based on the test.

**Post condition for Test:** What will be true after the test has been run? Has the state of the system changed in any way?

**Notes:** Comments and notes for you and your team members.

| <b>Project Name: Project 1: Election Voting System</b>   | Team# 3   |
|--|---|
| Test Stage: Unit _1_ System  | Test Date: 3/24/2023  |
| Test Case ID#: testPopulateParties Test Description: testing the function populateParties of the class CPL to see if parties are correctly populated with the correct information.   | Name(s) of Testers: Chiemeka  |
|  | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
|  | Test methods in ElectionTestCPL.java<br>Uses: testCPL.csv   |
| Automated: yes   |   |
| Results: Pass  |   |
| Preconditions for Test: The File called "file" must be provided and open properly. It notes that the constructor is the constru | nust also contain the correct format of a CPL election file. The                                      |

| Step | Test Step                        | Test                       | Expected                                  | Actual |   |
|------|----------------------------------|----------------------------|---|--------|---|
| #    | Description                      | Data                       | Result                                    | Result | Notes   |
| 1    |                                  |                            |   |        |   |
|      | The user runs the test file, the |                            | New Wave Reform Green<br>Independent Test | ·      | The formatting of expected does not matter, we are looking for if the answers(such as 7) are correct as the actual results. Parties is a string with the party names separated by a |
|      |                                  | parties in its constructor |   |        | space   |
| 3    |                                  |                            |   |        |   |
| 4    |                                  |                            |   |        |   |
|      |                                  |                            |   |        |   |
|      |                                  |                            |   |        |   |

| ost condition(s) for Test: ne cpl object now has objects of parties. The system has changed i lue.   | n that the class variable parties is no longer empty, numParties                                      |
|--|---|
| Project Name: Project 1: Voting System   | Team# 3   |
| Test Stage: Unit _1_ System<br>Test Case ID#: testPopulateCandidate<br>Test Description: testing the function populateCandidates of<br>the class CPL to see if candidates are correctly populated<br>with the correct information. | Test Date: 3/24/2023 Name(s) of Testers: Chiemeka   |
|  | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
| Automated: yes   | Test methods in ElectionTestCPL.java<br>Uses: testCPL.csv   |
| Results: Pass  |   |

| Step | Test Step   | Test  | Expected   | Actual                                |   |
|------|---|---|--|---------------------------------------|---|
| #    | Description   | Data  | Result   | Result                                | Notes   |
| 1    |   |   |  |                                       |   |
|      | The user runs the test file, the set up is the file is open and a | populated with data about the parties in its constructor. | Green Xu Wang<br>Jacks Rosen<br>McClure Berg<br>Zheng Melvin<br>Peters | Jacks Rosen McClure Berg Zheng Melvin | The expected candidates is a string with the candidates names separated by space for each party. It does not include the new line for each party, that is for readability |
| 3    |   |   |  |                                       |   |
| 4    |   |   |  |                                       |   |
|      |   |   |  |                                       |   |
|      |   |   |  |                                       |   |

| Doct  | condition( | (C) | for   | Tost. |
|-------|------------|-----|-------|-------|
| 1 021 | Conuntion  | 2   | , 101 | ICSI. |

Automated: yes

The cpl object has parties that are populated with candidates. The system has changed in that each party has an array of candidates.

| Project Name: Project 1: Voting System   | Team# 3  |
|--|--|
| Test Stage: Unit _1_ System  | Test Date: 3/24/2023   |
| Test Case ID#: testPopulateBallots Test Description: testing the function populateBallots of the class CPL to see if ballots are correctly populated with the correct information. | Name(s) of Testers: Chiemeka                                 |
|  | Indicate where are you storing the tests (what file) and the |

name of the method/functions being used.

# Test methods in ElectionTestCPL.java Uses: testCPL.csv

| Results: | Pass |  |
|----------|------|--|
|          | •    |  |

#### **Preconditions for Test:**

The File called "file" must be provided and open properly. It must also contain the correct format of a CPL election file. The cpl object must already have party objects populated beforehand. The file must be opened at the point where the ballots are at. The audit file must be properly made in the constructor

| Step | Test Step   | Test  | Expected  | Actual   |   |
|------|---|---|---|--|---|
| #    | Description   | Data  | Result  | Result   | Notes   |
| 1    | _   |   |   |  |   |
|      | The user runs the test file, the set up is the file is open and a | populated with data about the parties and candidates in its constructor. Then the constructor calls populateBallots, and the ballot objects are populated | Ballot 1: ,,,,,,1 Ballot 2: ,1,,,,, Ballot 3: ,,,,1,, Ballot 4: ,,,,1, Ballot 5: ,,,1,,, Ballot 6: ,,1,,,, Ballot 7: 1,,,,, | Ballot 0: 1,,,,,, Ballot 1: ,,,,,,1 Ballot 2: ,1,,,,, Ballot 3: ,,,,1,, Ballot 4: ,,,,,1, Ballot 5: ,,,1,,, Ballot 6: ,,1,,,, Ballot 7: 1,,,,, Ballot 8: ,1,,,,, | The newlines do not matter, what is being compared is the strings without the newline |
| 4    |   |   |   |  |   |
|      |   |   |   |  |   |
|      |   |   |   |  |   |

**Post condition(s) for Test:** 

| <b>Project Name: Project 1: Voting System</b>   | Team# 3   |
|---|---|
| Test Stage: Unit _1_ System   | Test Date: 3/24/2023  |
| Test Case ID#: testgetNumParties Test Description: testing the function getNumParties of the class CPL to see if the number of parties are returned correctly.  | Name(s) of Testers: Chiemeka  |
|   | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
|   | Test methods in ElectionTestCPL.java<br>Uses: testCPL.csv   |
| Automated: yes  |   |
| Results: Pass   |   |
| Preconditions for Test:   |   |
| The File called "file" must be provided and open properly. It compared to the | must also contain the correct format of a CPL election file. The and.                                 |

| Step | Test Step   | Test  | Expected | Actual |       |
|------|---|---|----------|--------|-------|
| #    | Description   | Data  | Result   | Result | Notes |
| 1    |   |   |          |        |       |
| 2    | The user runs the test file, the set up is the file is open and a | A cpl object created from the file is populated with objects of parties, candidates, and ballots. The function returns the number of parties. | 7        | 7      |       |
| 3    |   |   |          |        |       |
| 4    |   |   |          |        |       |
|      |   |   |          |        |       |
|      |   |   |          |        |       |

| estem has not changed.  |   |
|---|---|
|   |   |
|   |   |
| Project Name: Project 1: Voting System  | Team# 3   |
| Test Stage: Unit _1_ System   | Test Date: 3/24/2023  |
| Test Case ID#: testgetParty Test Description: testing the function getParty of the class CPL to see if the array "parties" is returned correctly. Its memory address is returned, and this is used to test if the contents of the parties(names) is the same. | Name(s) of Testers: Chiemeka  |
|   | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
|   | Test methods in ElectionTestCPL.java<br>Uses: testCPL.csv   |
| Automated: yes  |   |
| Results: Pass   |   |

| Step | Test Step  | Test                  | Expected  | Actual                 |   |
|------|--|-----------------------|---|------------------------|---|
| #    | Description  | Data                  | Result  | Result                 | Notes   |
| 1    |  |                       |   |                        |   |
|      | The user runs the test file, the set up is the file is open and a cpl object is created. | The cpl parties array | Democratic Republic New Wave<br>Reform Green Independent Test | Green Independent Test | We are collecting the parties names in a string by storing the result of getParty in a Party array. |
| 3    |  |                       |   |                        |   |
| 4    |  |                       |   |                        |   |
|      |  |                       |   |                        |   |
|      |  |                       |   |                        |   |

| Post condition(s) for Test: |  |  |
|-----------------------------|--|--|
| The system has not changed  |  |  |

| Project Name: Project 1: Voting System  | Team# 3   |
|---|---|
| Test Stage: Unit _1_ System   | Test Date: 3/24/2023  |
| Test Case ID#: testgetNumCandidates Test Description: testing the function getNumCandidates of the class CPL to see if the number of candidates are returned correctly. | Name(s) of Testers: Chiemeka  |
|   | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
|   | Test methods in ElectionTestCPL.java  |
| Automated: ves  | Uses: testCPL.csv   |

| Results: | Pass |   |   |   |   |  |  |  |
|----------|------|---|---|---|---|--|--|--|
|          |      | _ | _ | _ | _ |  |  |  |

#### **Preconditions for Test:**

The File called "file" must be provided and open properly. It must also contain the correct format of a CPL election file. The cpl object must already have party and candidate objects populated beforehand. The calculation of number of candidates is done during the populating of the candidates

| Step | Test Step   | Test   | Expected | Actual |       |
|------|-------------|--|----------|--------|-------|
| #    | Description | Data   | Result   | Result | Notes |
| 1    |             |  |          |        |       |
| 2    |             | The number of candidates total, obtained by the function getNumCandidates and identified during populateCandidates | 14       | 14     |       |
| 3    |             |  |          |        |       |
| 4    |             |  |          |        |       |
|      |             |  |          |        |       |
|      |             |  |          |        |       |

### **Post condition(s) for Test:**

The system has not changed

| Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
|---|
| Test methods in ElectionTestCPL.java Uses: testCPL.csv  |
|   |
|   |
|   |

### **Preconditions for Test:**

The File called "file" must be provided and open properly. It must also contain the correct format of a CPL election file. The cpl object must already have party and candidate objects populated beforehand. The calculation of number of candidates is done during the populating of the candidates

| Step |   | Test           | Expected | Actual |       |
|------|---|----------------|----------|--------|-------|
| #    | Description   | Data           | Result   | Result | Notes |
| 1    |   |                |          |        |       |
| 2    | call getTotatSeats on cpl object,<br>,see if it returns what is<br>expected | The cpl object | 6        | 6      |       |
| 3    | -   | -              |          |        |       |
| 4    |   |                |          |        |       |
|      |   |                |          |        |       |
|      |   |                |          |        |       |

**Post condition(s) for Test:** 

| Project Name: Project 1: Voting System             | Team# 3   |
|--|---|
| Test Stage: Unit _1_ System                        | Test Date: 3/24/2023  |
| Test Case ID#: testgetTotalSeats Test Description: | Name(s) of Testers: Chiemeka  |
|  | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
|  | Test methods in ElectionTestCPL.java<br>Uses: testCPL.csv   |
| Automated: yes                                     |   |
| Results: Pass                                      |   |
| Preconditions for Test:                            |   |

| Step | Test Step<br>Description | Test |        | Actual |       |
|------|--------------------------|------|--------|--------|-------|
| #    | Description              | Data | Result | Result | Notes |
| 1    |                          |      |        |        |       |
| 2    |                          |      |        |        |       |
| 3    |                          |      |        |        |       |
| 4    |                          |      |        |        |       |
|      |                          |      |        |        |       |
|      |                          |      |        |        |       |

| Project Name: Project 1: Voting System  | Team# 3   |
|---|---|
| Test Stage: Unit _1_ System   | Test Date: 3/25/2023  |
| Test Case ID#: testgetBallots Test Description:                               | Name(s) of Testers:   |
|   | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
|   | Test methods in ElectionTestCPL.java<br>Uses: testCPL.csv   |
| Automated: yes  |   |
| Results: Pass   |   |
|   |   |
| Preconditions for Test: CPL object must be created and populated with data fr | com the election file, specifically the ballots.  |

Actual

Result

Ballot 0: 1,,,,, Ballot 1: ,,,,,1 Notes

The newlines do not matter,

what is being compared is the

Expected

Result

getBallots returns an array of Ballot 0: 1,,,,,, ballot objects Ballot 1: ,,,,,1

Step Test Step

**Description** 

#

2

Test

Data

|   |  | Ballot 3: ,,,,1,,<br>Ballot 4: ,,,,,1,<br>Ballot 5: ,,,1,,,<br>Ballot 6: ,,1,,,,<br>Ballot 7: 1,,,,, | Ballot 2: ,1,,,,, Ballot 3: ,,,,1,, Ballot 4: ,,,,1, Ballot 5: ,,,1,,, Ballot 6: ,,1,,,, Ballot 7: 1,,,,, Ballot 8: ,1,,,,, | strings without the newline |
|---|--|--|---|-----------------------------|
| 3 |  |  |   |                             |
| 4 |  |  |   |                             |
|   |  |  |   |                             |
|   |  |  |   |                             |

| Dage  | condition | 7~ | \ <b>C</b> ~ | T  | ~~4. |
|-------|-----------|----|--------------|----|------|
| Pasi  | conamion  | 18 | 110          | rı |      |
| I UST | COHMICION | 10 | ,            |    |      |

The system has not changed

| Project Name: Project 1: Voting System | Team# 3 |
|--|---------|
|--|---------|

Test Stage: Unit \_1\_ System \_\_\_ Test Date: 3/24/2023

Test Case ID#: testAssignBallots Name(s) of Testers: Chiemeka

**Test Description:** 

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Test methods in ElectionTestCPL.java

Uses: testCPL.csv

Automated: yes\_ Results: Fail

| Precon    | ditions | for | Test. |
|-----------|---------|-----|-------|
| 1 1 60011 | amann   | 101 | 1621. |

CPL object must be created and populated with data from the election file, specifically the audit file, the array of parties objects, the array of ballot objects.

| Step | Test Step   | Test   | Expected | Actual |   |
|------|-------------|--|----------|--------|---|
| #    | Description | Data   | Result   | Result | Notes   |
| 1    |             |  |          |        |   |
| 2    |             | The audit file will be written to about the results of the assignments. The class variable array of ballots. The class variable array of parties |          |        | This test was changed last<br>minute, it may not work as<br>expected. But there was not<br>enough time to test it. Thus, it<br>is labeled a failed test |
| 3    |             |  |          |        |   |
| 4    |             |  |          |        |   |
|      |             |  |          |        |   |
|      |             |  |          |        |   |

| Post condition(s) for Test: |  |  |
|-----------------------------|--|--|
|                             |  |  |
|                             |  |  |
|                             |  |  |

Project Name: Project 1: Voting System

Team# 3

Test Stage: Unit \_1\_ System \_\_ Test Date: 3/24/2023

Test Case ID#: testdistributeSeatsCoinToss Name(s) of Testers: Chiemeka

**Test Description:** 

Tests if the function coin toss in the distributeSeats function is

fair

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Test methods in ElectionTestCPL.java Uses: testCPL.csv

| Automated: ves | A | uto | mated: | ves |
|----------------|---|-----|--------|-----|
|----------------|---|-----|--------|-----|

Results: Pass

#### **Preconditions for Test:**

CPL object must be created and populated with data from the election file, specifically the audit file, the array of parties objects, the array of ballot objects. Ballots must be assigned by calling assignBallots(), this occurs in the run() function. The election file must be in the proper. There must be a tie between two parties that result in calling the coin toss

| Step | Test Step   | Test   | Expected            | Actual              |       |
|------|-------------|--|---------------------|---------------------|-------|
| #    | Description | Data   | Result              | Result              | Notes |
| 1    |             |  |                     |                     |       |
| 2    |             | cpl array of parties, number of ballots, total seats, and ballots array of each party, two parties with the same number of votes remaining and there is only 1 seat to give. | "fair around 50-50" | "fair around 50-50" |       |
| 3    |             |  |                     |                     |       |
| 4    |             |  |                     |                     |       |
|      |             |  |                     |                     |       |
|      |             |  |                     |                     |       |

**Post condition(s) for Test:** 

The system has not changed

Test Stage: Unit \_1\_ System \_\_ Test Date: 3/25/2023

Test Case ID#: testDuplicates Name(s) of Testers: Chiemeka

**Test Description:** 

Tests if the correct number of duplicates in votes remaining is

found from a starting index, in a row.

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Test methods in ElectionTestCPL.java

**Uses: testCPL.csv** 

Automated: yes

**Results: Pass** 

#### **Preconditions for Test:**

CPL object must be created and populated with data from the election file, specifically the audit file, the array of parties objects, the array of ballot objects. Ballots must be assigned by calling assignBallots(), this occurs in the run() function. The election file must be in the proper. There must be a tie between 3 or more parties, as duplicates() will be called to assist in the pooling function

| Step | Test Step   | Test | Expected                 | Actual  |  |
|------|-------------|------|--------------------------|---|--|
| #    | Description | Data | Result                   | Result  | Notes  |
| 1    |             |      |                          |   |  |
| 2    |             |      | Expected at index 2-6: 5 | Expected at index 0-1: 2 Expected at index 2-6: 5 | The formatting is not what matters, it is the values 2 and 5. This means that from index 0, there are 2 duplicates(same number of remaining votes). And at index 2, there are 5 duplicates in a row. |
| 3    |             |      |                          |   |  |
| 4    |             |      |                          |   |  |
|      |             |      |                          |   |  |

| <b>D</b> 4 | 1'4' ( ) E T   |                       |                  |                                 |                                  |
|------------|--|-----------------------|------------------|---------------------------------|----------------------------------|
| Post o     | condition(s) for Test:                                 |                       |                  |                                 |                                  |
|            |  |                       |                  |                                 |                                  |
| The sy     | stem has not changed                                   |                       |                  |                                 |                                  |
|            |  |                       |                  |                                 |                                  |
|            |  |                       |                  |                                 |                                  |
| Pro        | ject Name: Project                                     | 1: Voting System      |                  |                                 | Team# 3                          |
| Test       | Stage: Unit _1_  | System                | Т                | est Date: 3/25/2023             |                                  |
| Test       | Case ID#: testCalcula                                  | teRemainingVotes      | N                | ame(s) of Testers: Chieme       | ka                               |
|            | Description:   |                       |                  |                                 |                                  |
|            | ts if the remaining votes<br>ulated after the first ro | _ ·                   | orrectly         |                                 |                                  |
| Carc       | diated after the mist ro                               | unu                   |                  |                                 |                                  |
|            |  |                       |                  |                                 |                                  |
|            |  |                       |                  |                                 | ng the tests (what file) and the |
|            |  |                       | П                | ame of the method/function      | is being used.                   |
|            |  |                       | T                | est methods in ElectionTest     | CPL.java                         |
|            |  |                       | U                | ses: testCPL.csv                |                                  |
| Auto       | omated: yes  |                       |                  |                                 |                                  |
| Resu       | ılts: Pass   |                       |                  |                                 |                                  |
| Prec       | onditions for Test:                                    |                       |                  |                                 |                                  |
| l          |  | and populated with    | data from the el | ection file, specifically the a | udit file, the array of parties  |
|            |  |                       |                  |                                 | ccurs in the run() function. The |
| 1          | -  | roper. The election/p | rogram must be   | at the stage of after the first | st round and between the second  |
| roun       | u.   |                       |                  |                                 |                                  |
|            |  |                       |                  |                                 |                                  |
|            |  |                       |                  |                                 |                                  |
| Step       | <u> </u>   | Test                  | Expected         | Actual                          |                                  |
| #          | Description  | <b>Data</b>           | Result           | Result                          | Notes                            |

| 1 |  |                            |                            |  |
|---|--|----------------------------|----------------------------|--|
| 2 | cpl array of parties, number of ballots, total seats, remaining seats, and ballots array of each party. Each party has been give some amount of seats, they have their initial votes | 0<br>0<br>1<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>1<br>1 |  |
| 3 |  |                            |                            |  |
| 4 |  |                            |                            |  |
|   |  |                            |                            |  |
|   |  |                            |                            |  |

The system has changed in that the remaining votes for each party has been computed and assigned. This is the number of votes that will be used in the second round.

| Project Name: Project 1: Voting System   | Team# 3   |
|--|---|
| Test Stage: Unit _1_ System  | Test Date: 3/26/2023  |
| Test Case ID#: testPartyGetName Test Description: Tests if the correct name of the party is returned | Name(s) of Testers: Chiemeka  |
|  | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
|  | Test methods in ElectionTestCPL.java Uses: testCPL.csv  |
| Automated: yes   |   |
| Results: Pass  |   |

| Preconditions for Test:                       |
|---|
| A party object is created and provided a name |
|   |

| Step<br># | Test Step<br>Description | Test<br>Data                               |         | Actual<br>Result | Notes |
|-----------|--------------------------|--|---------|------------------|-------|
| 1         |                          |  |         |                  |       |
| 2         |                          | A party object is created and given a name | "Obama" | "Obama"          |       |
| 3         |                          |  |         |                  |       |
| 4         |                          |  |         |                  |       |
|           |                          |  |         |                  |       |
|           |                          |  |         |                  |       |

| Post condition(s) for Test: |  |
|-----------------------------|--|
|                             |  |
| The system has not changed  |  |

| <b>Project Name:</b> | <b>Project 1: Voting System</b> | Team# 3 |
|----------------------|---------------------------------|---------|

| Test Stage: Unit _1_ System  | Test Date: 3/26/2023  |
|--|---|
| Test Case ID#: testAddSeatParty Test Description: Tests if a given amount is added to a party's seat count correctly | Name(s) of Testers: Chiemeka  |
|  | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |

Automated: yes

|   | Test methods in ElectionTestCPL.java Uses: testCPL.csv |  |  |
|---|--|--|--|
| Results: Pass                                     |  |  |  |
| Preconditions for Test: A party object is created |  |  |  |

| <b>Step</b> # 1 | Test Step<br>Description | Test<br>Data                               | * | Actual<br>Result | Notes   |
|-----------------|--------------------------|--|---|------------------|---|
| 2               |                          | A party object is created and given a name | 1 |                  | The 1 indicates that a seat has been added to the party |
| 3               |                          |  |   |                  |   |
| 4               |                          |  |   |                  |   |
|                 |                          |  |   |                  |   |
|                 |                          |  |   |                  |   |

The system has changed in that the party's total seats has been increased by the value provided to the user, in this case, 1.

Project Name: Project 1: Voting System Team# 3

Test Stage: Unit \_1\_ System \_\_ Test Date: 3/26/2023

| Test Case ID#: tesetremainderVotes Test Description: Tests setting the party's remaining votes to a new value | Name(s) of Testers: Chiemeka  |
|---|---|
|   | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
|   | Test methods in ElectionTestCPL.java Uses: testCPL.csv  |
| Automated: yes  |   |
| Results: Pass   |   |
|   |   |
| <b>Preconditions for Test:</b>  |   |
| A party object is created, its remaining votes count is change  | ed  |

| Step<br># | Test Step<br>Description | Test<br>Data                   | Expected<br>Result | Actual<br>Result   | Notes |
|-----------|--------------------------|--------------------------------|--------------------|--------------------|-------|
| 1         | -                        |                                |                    |                    |       |
|           |                          | A party object is created, its | remainder votes: 1 | remainder votes: 1 |       |
| 2         |                          | remaining votes count changes. |                    |                    |       |
| 3         |                          |                                |                    |                    |       |
| 4         |                          |                                |                    |                    |       |
|           |                          |                                |                    |                    |       |
|           |                          |                                |                    |                    |       |

The system has changed in that the party's remaining votes have been changed.

**Project Name: Project 1: Voting System** 

| Test Stage: Unit _1_ System  | Test Date: 3/26/2023  |
|--|---|
| Test Case ID#: testAddSeatCandidate Test Description: Tests adding a seat to a candidate correctly | Name(s) of Testers: Chiemeka  |
|  | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
|  | Test methods in ElectionTestCPL.java<br>Uses: testCPL.csv   |
| Automated: yes   |   |
| Results: Pass  |   |
| D 144 C T  |   |
| Preconditions for Test:  |   |
| A candidate object is created  |   |

| Step | Test Step   | Test                           | Expected | Actual |   |
|------|-------------|--------------------------------|----------|--------|---|
| #    | Description | Data                           | Result   | Result | Notes   |
| 1    |             |                                |          |        |   |
|      |             | A candidate object is created, | 1        |        | The 1 represents the seats of the candidates. The actual result is obtained via |
| 2    |             | Bob of the Democrats           |          |        | getSeats()  |
| 3    |             |                                |          |        |   |
| 4    |             |                                |          |        |   |
|      |             |                                |          |        |   |
|      |             |                                |          |        |   |

The system has changed in that the candidates total number of seats has increased by 1

**Project Name: Project 1: Voting System** 

| Test Stage: Unit _1_ System  | Test Date: 3/26/2023  |
|--|---|
| Test Case ID#: testgetCandidateName Test Description: Tests getting a candidate's name through the getCandidateName function | Name(s) of Testers: Chiemeka  |
|  | Indicate where are you storing the tests (what file) and the name of the method/functions being used. |
|  | Test methods in ElectionTestCPL.java Uses: testCPL.csv  |
| Automated: yes   |   |
| Results: Pass  |   |
|  |   |
| Preconditions for Test:  |   |
| A candidate object is created  |   |

| Step | Test Step<br>Description | Test   | Expected | Actual |       |
|------|--------------------------|--|----------|--------|-------|
| #    | Description              | Data   | Result   | Result | Notes |
| 1    |                          |  |          |        |       |
| 2    |                          | A candidate object is created,<br>Bob of the Democrats | "Bob"    | "Bob"  |       |
| 3    |                          |  |          |        |       |
| 4    |                          |  |          |        |       |
|      |                          |  |          |        |       |
|      |                          |  |          |        |       |

The system has not changed