Test Plan

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| S.No | Action | Inputs | Expected Output | Actual Output | Test Result |
| 1. | Launch CTAApp Application | Open CTAApp.java through Eclipse IDE | Displays the main menu | Displays the main menu | Pass |
| 2. | Choose Option 1: Display Station Name | Enter Option 1 | Displays the Station Name of all the lines of the CTA in a Sorted Order | Displays the Station Name of all of the CTA lines but some of the lines are not sorted completely | Pass |
| 3. | Choose Option 2: Display Station w/o Wheelchair Access | Enter Option 2  Input “Yes”  Input “red” | Displays the station names from the red line with wheelchair access | Displays the station names from the red line with wheelchair access | Pass |
| 4. | Choose Option 3: Display Nearest Station | Enter Option 3  Input “red”  Input “45.777” for Latitude  Input “77.7788” for Longitude | Displays the specific station name that is closest to the user’s geolocation. | Displays the specific station name that is closest to the user’s geolocation | Pass |
| 5. | Choose Option 4: Display information for a station with a specific name | Enter Option 4  Input “green”  Input “Harlem” | Displays the specific station information | Displays the specific station information | Pass |
| 6. | Choose Option 5: Display information of all of the stations | Enter Option 5 | Display information of all of the stations | Display information of all of the stations | Pass |
| 7. | Choose Option 6: Add a new Station | Enter Option 6  Input Station name “Milwaukee”  Input Latitude  “45.333”  Input Longitude  “77.777”  Input Location  “subway”  Input Wheelchair Accessibility  “true”  Input the line of the station “red” | The element gets added to that specific object within the arraylist.  This goes back to the main menu | The element gets added to that specific object within the arraylist.  This goes back to the main menu | Pass |
| 8. | Choose Option 7: Modify existing station name | Enter Option 7  Input Station name  “Harlem”  Input the line of the station  “green”  Modify the name of the station  “Harlem”  Modify the Latitude  “41.88706”  Modify the Longitude  “-87.80486”  Modify the location  “subway”  Modify the wheelchair accessibility  “true” | The location of the station gets modified and outputs the modified station information | The location of the station gets modified and outputs the modified station information | Pass |
| 9. | Choose Option 8: Delete an existing station | Enter Option 8  Input “Harlem”  Input “green” | The program looks up the station from the object and that element is removed from the arraylist | The program looks up the station from the object and that element is removed from the arraylist | Pass |
| 11. | Choose Option 10: Exit | Enter Option 10 | Outputs “Thank you for using the CTAStop App!” and exits the program | Outputs “Thank you for using the CTAStop App!” and exits the program | Pass |