| **Method Signature:** void clickAdd(ActionEvent event){} *Method takes input from user in GUI and adds the student to the roster. All fields need to be filled in order for method to perform.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method won’t work if fname isn’t filled in. | -Fill in all fields besides fname | Please select fname. |
| 2 | Method won’t work if lname isn’t filled in. | -Fill in all fields besides lname | Please select lname. |
| 3 | Method won’t work if DOB isn’t filled in. | -Fill in all fields besides DOB | Please select a date. |
| 4 | Method won’t work if DOB isn’t valid | -Create an instance of a date that isn’t valid.  -3/5/1890 | DOB invalid. |
| 5 | Method won’t work if the major isn’t filled in. | -Fill in all fields besides major | Please select a major |
| 6 | Method won’t work if credits completed isn’t filled in. | -Fill in all fields besides creditsCompleted | Please enter credits completed. |
| 7 | Method won’t work if status isn’t filled in. | -Fill in all fields besides status | Please enter a status. |
| 8 | Method will work if all fields are valid and filled in | Fill in all fields and make sure everything is valid | \*student\* added to roster |

| **Method Signature:** void clickRemove(ActionEvent event){} *Method takes input from user in GUI and removes a student from the roster if all fields are filled and student is in the roster.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method won’t work if fname isn’t filled in. | -Fill in all fields besides fname | Please select fname. |
| 2 | Method won’t work if lname isn’t filled in. | -Fill in all fields besides lname | Please select lname. |
| 3 | Method won’t work if DOB isn’t filled in. | -Fill in all fields besides DOB | Please select a date. |
| 4 | Method won’t work if DOB isn’t valid | -Create an instance of a date that isn’t valid.  -3/5/1890 | DOB invalid. |
| 5 | Method won’t work if the student isn’t in the roster | -Enter a student that isn’t in the roster | \*student\* is not in roster. |
| 6 | Method will work if all required fields are valid and filled in | Fill in all required fields and make sure everything is valid | \*student\* removed from roster |

| **Method Signature:** void clickChangeMajor(ActionEvent event){} *Method changes the major of a student in the roster by taking input from user in the GUI. The correct fields must be filled to do so.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method won’t work if fname isn’t filled in. | -Fill in all fields besides fname | Please select fname. |
| 2 | Method won’t work if lname isn’t filled in. | -Fill in all fields besides lname | Please select lname. |
| 3 | Method won’t work if DOB isn’t filled in. | -Fill in all fields besides DOB | Please select a date. |
| 4 | Method won’t work if DOB isn’t valid | -Create an instance of a date that isn’t valid.  -3/5/1890 | DOB invalid. |
| 5 | Method won’t work if the major isn’t filled in. | -Fill in all fields besides major | Please select a major |
| 6 | Method won’t work if the student isn’t in the roster | -Enter a student that isn’t in the roster | \*student\* is not in roster. |
| 7 | Method will work if all required fields are valid and filled in | Fill in all required fields and make sure everything is valid | \*student\* changed to \*major\* |

| **Method Signature:** loadFromFile(ActionEvent event){} *Method loads students in the studentList.txt file into the roster. No fields need to be filled for this method to perform* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method will load students into roster when button is clicked | -Click load from file button | Students loaded to Roster. |

| **Method Signature:** void clickEnroll(ActionEvent event){} *Method takes input from user in GUI and enrolls a student if they are in the roster and fit the requirements for enrollment. All fields must be filled in order to perform.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method won’t work if fname isn’t filled in. | -Fill in all fields besides fname | Please select fname. |
| 2 | Method won’t work if lname isn’t filled in. | -Fill in all fields besides lname | Please select lname. |
| 3 | Method won’t work if DOB isn’t filled in. | -Fill in all fields besides DOB | Please select a date. |
| 4 | Method won’t work if DOB isn’t valid | -Create an instance of a date that isn’t valid.  -3/5/1890 | DOB invalid. |
| 5 | Method won’t work if the student isn’t in the roster | -Enter a student that isn’t in the roster | \*student\* is not in roster. |
| 6 | Method won’t work if credits enrolled isn’t filled in. | -Fill in all fields besides creditsEnrolled | Please enter credits enrolled. |
| 7 | Method won’t work if credits enrolled isn’t valid. | -Fill in invalid credits enrolled  -30 | \*creditsEnrolled\*: invalid amount |
| 8 | Method will work if all required fields are valid and filled in | Fill in all required fields and make sure everything is valid | \*student\* enrolled \*creditsEnrolled\* credits |

| **Method Signature:** void clickDrop(ActionEvent event){} *Method takes input from user in GUI and drops a student from enrollment if they have been enrolled. All fields must be filled in order to perform* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method won’t work if fname isn’t filled in. | -Fill in all fields besides fname | Please select fname. |
| 2 | Method won’t work if lname isn’t filled in. | -Fill in all fields besides lname | Please select lname. |
| 3 | Method won’t work if DOB isn’t filled in. | -Fill in all fields besides DOB | Please select a date. |
| 4 | Method won’t work if DOB isn’t valid | -Create an instance of a date that isn’t valid.  -3/5/1890 | DOB invalid. |
| 5 | Method won’t work if the student isn’t in the roster | -Enter a student that isn’t in the roster | \*student\* is not in roster. |
| 6 | Method will work if all required fields are valid and filled in | Fill in all required fields and make sure everything is valid | \*student\* dropped \*creditsEnrolled\* credits |

| **Method Signature:** void updateScholarshipAmount(ActionEvent event){} *Method takes input from user in GUI and updates the scholarship amount for a student if they are eligible for one.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method won’t work if fname isn’t filled in. | -Fill in all fields besides fname | Please select fname. |
| 2 | Method won’t work if lname isn’t filled in. | -Fill in all fields besides lname | Please select lname. |
| 3 | Method won’t work if DOB isn’t filled in. | -Fill in all fields besides DOB | Please select a date. |
| 4 | Method won’t work if DOB isn’t valid | -Create an instance of a date that isn’t valid.  -3/5/1890 | DOB invalid. |
| 5 | Method won’t work if the student isn’t in the enrollment | -Enter a student that isn’t in the enrollment | \*student\* is not in enrollment. |
| 6 | Method won’t work if the student isn’t eligible for award | -Enter a student that isn’t eligible for award  -International student | \*student\* is not eligible for award. |
| 7 | Method will work if all required fields are valid and filled in | Fill in all required fields and make sure everything is valid | \*student\* awarded \*scholarshipAmount\* |

| **Method Signature:** printByProfile(ActionEvent event){} *Method prints roster by profile in the text area.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method will print students by profile if roster isn’t empty | -Hit button when roster isn’t empty | \*Printed students by profile\* |
| 2 | Method will not print students by profile if roster is empty | -Hit button when roster is empty | Roster is empty. |

| **Method Signature:** printBySchool(ActionEvent event){} *Method prints roster by school in the text area.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method will print students by school if roster isn’t empty | -Hit button when roster isn’t empty | \*Printed students by school\* |
| 2 | Method will not print students by school if roster is empty | -Hit button when roster is empty | Roster is empty. |

| **Method Signature:** printByStanding(ActionEvent event){} *Method prints roster by standing in the text area.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method will print students by standing if roster isn’t empty | -Hit button when roster isn’t empty | \*Printed students by standing\* |
| 2 | Method will not print students by standing if roster is empty | -Hit button when roster is empty | Roster is empty. |

| **Method Signature:** printRBS(ActionEvent event){} *Method prints only RBS students in the text area.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method will print students in RBS if roster isn’t empty | -Hit button when RBS isn’t empty | \*Printed students in RBS\* |
| 2 | Method will not print students in RBS if roster is empty | -Hit button when RBS is empty | Roster is empty. |

| **Method Signature:** printSAS(ActionEvent event){} *Method prints only SAS students in the text area.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method will print students in SAS if roster isn’t empty | -Hit button when SAS isn’t empty | \*Printed students in SAS\* |
| 2 | Method will not print students in SAS if roster is empty | -Hit button when SAS is empty | Roster is empty. |

| **Method Signature:** printSCI(ActionEvent event){} *Method prints only SC&I students in the text area.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method will print students in SC&I if roster isn’t empty | -Hit button when SC&I isn’t empty | \*Printed students in SC&I\* |
| 2 | Method will not print students in SC&I if roster is empty | -Hit button when SC&I is empty | Roster is empty. |

| **Method Signature:** printSOE(ActionEvent event){} *Method prints only SOE students in the text area.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method will print students in SOE if roster isn’t empty | -Hit button when SOE isn’t empty | \*Printed students in SOE\* |
| 2 | Method will not print students in SOE if roster is empty | -Hit button when SOE is empty | Roster is empty. |

| **Method Signature:** printEnrolled(ActionEvent event){} *Method prints the Enrollment in the text area.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method will print the Enrollment if enrollment isn’t empty | -Hit button when Enrollment isn’t empty | \*Printed Enrollment\* |
| 2 | Method will not print the Enrollment if enrollment is empty | -Hit button when Enrollment is empty | Enrollment is empty. |

| **Method Signature:** printTuitionDue(ActionEvent event){} *Method prints the tuition due for enrolled students in the text area.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method will print the tuition due if enrollment isn’t empty | -Hit button when Enrollment isn’t empty | \*Printed tuition due\* |
| 2 | Method will not print the tuition due if enrollment is empty | -Hit button when Enrollment is empty | Enrollment is empty. |

| **Method Signature:** semesterEnd(ActionEvent event){} *Method ends the semester of enrolled students and adds their credits enrolled to credits completed. Once this is done a print out of all students eligible for graduation is given in the text area.* | | | |
| --- | --- | --- | --- |
| **Test Case #** | **Requirement** | **Test description and Input Data** | **Expected result/output** |
| 1 | Method will print the students ready for graduation if enrollment isn’t empty | -Hit button when Enrollment isn’t empty | \*Printed students eligible for graduation\* |
| 2 | Method will not print the students ready for graduation if enrollment is empty | -Hit button when Enrollment is empty | Enrollment is empty. |