# Code for coverage

1. try {
2. if (seatText.getText().equals("")) {
3. totalFareText.setText("missing input. Try Again");
4. }
5. else {
6. seatNum = Integer.parseInt(seatText.getText().trim());
7. if (departCombo.getSelectedItem() == "Lahore" ) {
8. if (arrCombo.getSelectedItem() == "Islamabad") {
9. eco = 500;
10. acClass = 1000;
11. if (economy.isSelected()) {
12. totalFareText.setText(String.format("%d",eco\*seatNum));
13. }
14. else if (AC.isSelected()) {
15. totalFareText.setText(String.format("%d", acClass\*seatNum));
16. }
17. else {
18. totalFareText.setText("missing input. Try Again");
19. }
20. }
21. else if (arrCombo.getSelectedItem() == "Gujranwala") {
22. eco = 600;
23. acClass = 1500;
24. if (economy.isSelected()) {
25. totalFareText.setText(String.format("%d", eco\*seatNum));
26. }
27. else if (AC.isSelected()) {
28. totalFareText.setText(String.format("%d", acClass\*seatNum));
29. }
30. else {
31. totalFareText.setText("missing input. Try Again");
32. }
33. }
34. else if (arrCombo.getSelectedItem() == "Faisalabad") {
35. eco = 700;
36. acClass = 200;
37. if (economy.isSelected()) {
38. totalFareText.setText(String.format("%d", eco\*seatNum));
39. }
40. else if (AC.isSelected()) {
41. totalFareText.setText(String.format("%d", acClass\*seatNum));
42. }
43. else {
44. totalFareText.setText("missing input. Try Again");
45. }
46. }
47. FileWriter file = new FileWriter("output.txt");
48. file.write(totalFareText.getText());
49. file.close();
50. }
51. else if (departCombo.getSelectedItem() == "Peshawar" ) {
52. if (arrCombo.getSelectedItem() == "Islamabad") {
53. eco = 500;
54. acClass = 1000;
55. if (economy.isSelected()) {
56. totalFareText.setText(String.format("%d", eco\*seatNum));
57. }
58. else if (AC.isSelected()) {
59. totalFareText.setText(String.format("%d", acClass\*seatNum));
60. }
61. else {
62. totalFareText.setText("missing input. Try Again");
63. }
64. }
65. else if (arrCombo.getSelectedItem() == "Gujranwala") {
66. eco = 600;
67. acClass = 1500;
68. if (economy.isSelected()) {
69. totalFareText.setText(String.format("%d", eco\*seatNum));
70. }
71. else if (AC.isSelected()) {
72. totalFareText.setText(String.format("%d", acClass\*seatNum));
73. }
74. else {
75. totalFareText.setText("missing input. Try Again");
76. }
77. }
78. else if (arrCombo.getSelectedItem() == "Faisalabad") {
79. eco = 700;
80. acClass = 200;
81. if (economy.isSelected()) {
82. totalFareText.setText(String.format("%d", eco\*seatNum));
83. }
84. else if (AC.isSelected()) {
85. totalFareText.setText(String.format("%d", acClass\*seatNum));
86. }
87. else {
88. totalFareText.setText("missing input. Try Again");
89. }
90. }
91. FileWriter file = new FileWriter("output.txt");
92. file.write(totalFareText.getText());
93. file.close();
94. }
95. }
96. } catch (Exception ex) {
97. System.out.println(ex);
98. }
99. }

# Code Coverage:

## Statement Coverage:

Statement 1: seatText.getText().equals("")

Answer: 1-4 line executed

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Statement 2: seatText.getText().equals("someText")

Answer: 1, 5-103 line executed

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Statement 3: arrCombo.getSelectedItem() == "Islamabad"

Answer: 8-20 line executed

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Statement 4: arrCombo.getSelectedItem() == "Gujrwawala"

Answer: 8,21-33 line executed

14/39

Statement 5: arrCombo.getSelectedItem() == "Faisalabad"

Answer: 8,21, 34-46 line executed

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Statement 5: departombo.getSelectedItem() == "Lahore"

Answer: 7-20 line executed

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Statement 6: departombo.getSelectedItem() == "Peshawar"

Answer: 7,51-64 line executed

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Statement 6: departombo.getSelectedItem() == "Faisalabad"

Answer: 7,51 78-90 line executed

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Statement 7: economy.isSelected()

Answer: 11-13,20 line executed

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Statement 8: AC.isSelected()

Answer: 11,14-16,20 line executed

5/10

Statement 8: else

Answer: 11,14,17-19,20, line executed

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Statement 8: economy.isSelected()

Answer: 24-26,33 line executed

4/10

Statement 9: AC.isSelected()

Answer: 24,27-29,33 line executed

5/10

Statement 10: else

Answer: 24,27,33, 30-32 line executed

6/10

Statement 11: economy.isSelected()

Answer: 37-39, 46 line executed

4/10

Statement 12: AC.isSelected()

Answer: 37,46, 40-42 line executed

5/10

Statement 13: else

Answer: 37, 46, 43-45 line executed

6/10

Statement 14: economy.isSelected()

Answer: 56-57,64 line executed

4/10

Statement 15: AC.isSelected()

Answer: 56, 58-60, 64 line executed

5/10

Statement 16: else

Answer: 56, 58, 61-64 line executed

6/10

Statement 17: economy.isSelected()

Answer: 81-83, 90 line executed

4/10

Statement 18: AC.isSelected()

Answer: 81,90, 84-86 line executed

5/10

Statement 19: else

Answer: 81, 90, 84, 87-89 line executed

6/10

Statement 20: arrCombo.getSelectedItem() == "Islamabad"

Answer: 52-64 line executed

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Statement 21: arrCombo.getSelectedItem() == "Gujrwawala"

Answer: 52, 65-77 line executed

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Statement 22: arrCombo.getSelectedItem() == "Faisalabad"

Answer: 52, 65, 78-90 line executed

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## Decision Coverage:

Statement 1:

Condition 1: departCombo.getSelectedItem() == “Lahore” == ½

Condition 2: departCombo.getSelectedItem() == “Peshawar” == ½

Statement 2:

Condition 1: arrCombo.getSelectedItem() == “Islamabad” == 1/3

Condition 1: arrCombo.getSelectedItem() == “Gujrwalan” == 1/3

Condition 1: arrCombo.getSelectedItem() == “Faisalabad” == 1/3

Statement 3:

Conditon 1: isSelected() == economy == 1/3

Conditon 2: isSelected() == AC== 1/3

Conditon 3: isSelected() == else == 1/3

## Functional Coverage:

Statement 1:

Condition 1: departCombo.getSelectedItem() == “Lahore” == ½

Condition 2: departCombo.getSelectedItem() == “Peshawar” == ½

Statement 2:

Condition 1: arrCombo.getSelectedItem() == “Islamabad” == 1/3

Condition 1: arrCombo.getSelectedItem() == “Gujrwalan” == 1/3

Condition 1: arrCombo.getSelectedItem() == “Faisalabad” == 1/3

Statement 3:

Conditon 1: isSelected() == economy == 1/3

Conditon 2: isSelected() == AC== 1/3

Conditon 3: isSelected() == else == 1/3