|  |  |  |  |
| --- | --- | --- | --- |
| Reason For Test Case | Input Values | Expected Output | Observed Output |
| -Passing and failing normal data.  - only one valid data | Last,First 1111 70 70 70  Last2,First2 1112 50 50 50 | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name | Stud Id | Exam 1 | Exam 2 | Exam 3 | AVG | Passed/Failed | | Last,First | 1111 | 70.00 | 70.00 | 70.00 | 70.00 | PASSED | | Last2,First2 | 1112 | 50.00 | 50.00 | 50.00 | 50.00 | FAILED | | Mean of AVG = 60.00 | | | | | | | |  |
| - invalid data with valid data | Last,First 1112 97 99 99  Last2,First2 1114 101 99 99 | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name | Stud Id | Exam 1 | Exam 2 | Exam 3 | AVG | Passed/Failed | | Last,First | 1112 | 97.00 | 99.00 | 99.00 | 98.33 | PASSED / TOP | | Last2,First2 | 1114 | 101.00 | 99.00 | 99.00 | ~~Invalid Data ~~ | | | Mean of AVG = 98.33 | | | | | | | |  |
| All invalid data situations:  -high student id  -low stud id  -High exam data  -Low exam data  -no valid data | Last,First 1113 -1 30 30  Last2,First2 10113 30 30 30  Last3,First3 1114 101 30 30  Last3,First3 1115 30 -1 30 | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name | Stud Id | Exam 1 | Exam 2 | Exam 3 | AVG | Passed/Failed | | Last,First | 1113 | -1.00 | 30.00 | 30.00 | ~~Invalid Data ~~ | | | Last2,First2 | 10113 | 30.00 | 30.00 | 30.00 | ~~Invalid Data ~~ | | | Last3,First3 | 1114 | 101.00 | 30.00 | 30.00 | ~~Invalid Data ~~ | | | Last4,First4 | 1115 | 30.00 | -1.00 | 30.00 | ~~Invalid Data ~~ | | | There is no valid data to calculate the mean of the AVG for it ! | | | | | | | |  |
| -Peaks of valid exam data 0 and 100  -Peaks of valid studId data 1111 and 9999 | Last,First 1111 100 100 100  Last2,First2 9999 0 0 0 | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name | Stud Id | Exam 1 | Exam 2 | Exam 3 | AVG | Passed/Failed | | Last,First | 1111 | 100.00 | 100.00 | 100.00 | |  |  | | --- | --- | | 100.00 | PASSED | | | | Last2,First2 | 9999 | 0.00 | 0.00 | 0.00 | |  |  | | --- | --- | | 0.00 | FAILED | | |   Mean of AVG = 50.00 |  |
| - only one invalid data | Last,First 11111 70 70 70 | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name | Stud Id | Exam 1 | Exam 2 | Exam 3 | AVG | Passed/Failed | | Last,First | 11111 | 70.00 | 70.00 | 70.00 | ~~Invalid Data ~~ | | | There is no valid data to calculate the mean of the AVG for it ! | | | | | | | |  |