|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable Name | Test Type | Test Data | Purpose of Data | Pass | Fail |
| Decision | String |  |  |  |  |
| option | integer | 1 | Allow the program to store and execute the user option from the menu to add a class | Pass |  |
| cName | String | ? | To allow program to store the name of the form teacher class | Pass |  |
| tName | String | user | To allow program to store the name of the class teacher | Pass |  |
| tPass | String | pass | To grant the user full access to the program | Pass |  |
| Program is ran again | | | | | |
| readUsername | String | users@3 | To ensure the right username is enter to allow the user access | Pass |  |
| readPassword | String | Password112 | To ensure the right password is enter to allow the user access | Pass |  |
| size | Integer | 3 | Allow the program to repeat the program a set amount of time | Pass |  |
| x | integer | 1 | Allow the program to count the number of students for each iteration | Pass |  |
| Students[i].fullName | String | Jan | Allow the program to store all students full name to a file |  |  |
| Students[i].mathGrade | *String* | *100* | Allow the program to store all math students grades to a file |  |  |
| Students[i].engGrade | String | *29* | Allow the program to store all English students grades name to a file |  |  |
| Students[i].phyEdGrade | String | *42* | Allow the program to store all Physical Education students grades to a file |  |  |
| Students[i].inteSciGrade | String | *39* | Allow the program to store all Integrated Science Students grades to a file |  |  |
| x | integer | 2 | Allow the program to count the number of students for each iteration |  |  |
| Students[i].fullName | String | Wan | Allow the program to store all students full name to a file |  |  |
| Students[i].mathGrade | *String* | 23 | Allow the program to store all math students grades to a file |  |  |
| Students[i].engGrade | String | 49 | Allow the program to store all English students grades name to a file |  |  |
| Students[i].phyEdGrade | String | 11 | Allow the program to store all Physical Education students grades to a file |  |  |
| Students[i].inteSciGrade | String | 29 | Allow the program to store all Integrated Science Students grades to a file |  |  |
| x | integer | 3 | Allow the program to count the number of students for each iteration |  |  |
| Students[i].fullName | String | Han | Allow the program to store all students full name to a file |  |  |
| Students[i].mathGrade | *String* | 83 | Allow the program to store all math students grades to a file |  |  |
| Students[i].engGrade | String | 34 | Allow the program to store all English students grades name to a file |  |  |
| Students[i].phyEdGrade | String | 98 | Allow the program to store all Physical Education students grades to a file |  |  |
| Students[i].inteSciGrade | String | 73 | Allow the program to store all Integrated Science Students grades to a file |  |  |
| Program ran again | | | | | |
| option | integer | 4 | Allow the program to store and execute the user option from the menu to manage a class | Pass |  |
| option | integer | 1 | Allow the program to store and execute the user option from the menu to add a student under class management | Pass |  |
| tUsername | String | user | To allow program to store the name of the class teacher | Pass |  |
| tPassword | String | pass | To grant the user full access to the program | Pass |  |
| className | String |  | To allow program to store the name of the form teacher class | Pass |  |
| Student[i].fullName |  | Pan | Allow program store full name of a student | Pass |  |
| Student[i].mathGrade |  | 45 | Allow the program to store the math grade of a student | Pass |  |
| Student[i].engGrade |  | 67 | Allow the program to store the English grade of a student | Pass |  |
| Student[i].inteSciGrade |  | 87 | Allow the program to store the Integrated Science grade of the student | Pass |  |
| Student[i].phyEdGrade |  | 32 | Allow the program to store the physical education grade of a student | Pass |  |
| Program ran again | | | | | |
| option | integer | 4 | Allow the program to store and execute the user option from the menu to manage a class | Pass |  |
| option | integer | 2 | Allow the program to store and execute the user option from the menu to add a student under class management | Pass |  |
| tUsername | String | user | To allow program to store the name of the class teacher | Pass |  |
| tPassword | String | pass | To grant the user full access to the program | Pass |  |
| className | String |  | To allow program to store the name of the form teacher class | Pass |  |
| Student[i].fullName |  | Pan | Allow program store full name of a student | Pass |  |
| Student[i].mathGrade |  | 45 | Allow the program to store the math grade of a student | Pass |  |
| Student[i].engGrade |  | 67 | Allow the program to store the English grade of a student | Pass |  |
| Student[i].inteSciGrade |  | 87 | Allow the program to store the Integrated Science grade of the student | Pass |  |
| Student[i].phyEdGrade |  | 32 | Allow the program to store the physical education grade of a student | Pass |  |
| Program ran again | | | | | |
| option | integer | 3 | Allow the program to store and execute the user option from the menu to view a class report | Pass |  |
| tUsername | String | user | To allow program to store the name of the class teacher | Pass |  |
| tPassword | String | pass | To grant the user full access to the program | Pass |  |
| className | String |  | To allow program to store the name of the form teacher class | Pass |  |
| islogged |  | User/ pass | Ensure the login information is correct. | pass |  |
| readUsername | String | user | To ensure the right username is enter to allow the user access | Pass |  |
| readPassword | String | pass | To ensure the right password is enter to allow the user access | Pass |  |
| highestAverageStudent | String | Jan | To determine the name of the highest average student | Pass |  |
| heighestAverage | Integer | 52>0 | To determine the highest average of the students | Pass |  |
| heighestMathStudent | String | Jan | To determine the name of  The student with the highest Math average | Pass |  |
| heighestMath | Integer | 100>0 | To the determine the highest math average | Pass |  |
| highestEngStudent | String | Jan | To determine the name of  The student with the highest English average | Pass |  |
| heighestEng | integer | 29>0 | To the determine the highest English average | Pass |  |
| heighestInteSciStudent | String | Jan | To determine the name of  The student with the highest Integrated Science average | Pass |  |
| heighestInteSci | integer |  | To the determine the highest Integrated Science average | Pass |  |
| heighestPhysEdStudent | String | Jan | To determine the name of  the student with the highest Integrated Science average | Pass |  |
| heighestPhyEd | Integer | 39>0 | To the determine the highest physical education average | Pass |  |
| averageGrade | Real | 52 | To |  |  |
| ptr |  |  |  |  |  |
| fullName | String | Jan |  |  |  |