|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variable Name | | | | Type of input | Test Type | Test Data | Purpose of Data | | Actual Result | Pass/ Fail |
| option | | | | Normal | 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 | | | | Normal | String | Mark Anthony | To allow program to store the name of the class teacher | |  | Pass |
| tPass | | | | Normal | String | Pass12 | To grant the user full access to the program | |  | Pass |
| option | | | | Normal | 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 | | | | Normal | String | Mark Anthony | To allow program to store the name of the class teacher | |  | Pass |
| tPass | | | | Normal | String | Pass12 | To grant the user full access to the program | |  | Pass |
| option | | | | Normal | 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 | | | | Normal | String | Mark Anthony | To allow program to store the name of the class teacher | |  | Pass |
| tPass | | | | Normal | String | Pass12 | To grant the user full access to the program | |  | 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 |
| readUsername | | |  | | String | user | 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 |
| 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 |
| readUsername | | | |  | String | user | 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 |
| 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 |
| readUsername | | | |  | String | user | 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 |
| option | | | |  | integer | 4 | Allow the program to store and execute the user option from the menu to manage class | |  | Pass |
| option | | | |  | integer | 1 | Allow the program to store and execute the user option from the menu to add students to the class | |  | Pass |
| className | | | |  | String | user | To allow program to store the name of the class | |  | Pass |
| tUsername | | | |  | String | pass | To allow program to store the name of the class teacher | |  | Pass |
| tPass | | | |  | String | user | To grant user full access to the program | |  | Pass |
| isLogged | | | |  |  | user  pass | To ensure the right username and password is enter to allow the user access | |  | Pass |
| tUsername | | | |  | String | user | To allow program to compare the stored name of the class teacher with what was entered for login | |  | Pass |
| tPassword | | | |  | String | pass | To allow program to compare the stored the teacher’s password with what was entered for login | |  | Pass |
| Students[i].fullName | | | |  | String | Jan | Allow the program to store all students full name to a file | |  | Pass |
| Students[i].mathGrade | | | |  | *String* | *100* | Allow the program to store all math students grades to a file | |  | Pass |
| Students[i].engGrade | | | |  | String | *29* | Allow the program to store all English students grades name to a file | |  | Pass |
| Students[i].phyEdGrade | | | |  | String | *42* | Allow the program to store all Physical Education students grades to a file | |  | Pass |
| Students[i].inteSciGrade | | | |  | String | *39* | Allow the program to store all Integrated Science Students grades to a file | |  | Pass |
| i | | | |  | integer | 1 | Allow the program to count the number of students for each iteration | |  | Pass |
| Students[i].fullName | | | |  | String | Wan | Allow the program to store all students full name to a file | |  | Pass |
| Students[i].mathGrade | | | |  | *String* | 23 | Allow the program to store all math students grades to a file | |  | Pass |
| Students[i].engGrade | | | |  | String | 49 | Allow the program to store all English students grades name to a file | |  | Pass |
| Students[i].phyEdGrade | | | |  | String | 11 | Allow the program to store all Physical Education students grades to a file | |  | Pass |
| Students[i].inteSciGrade | | | |  | String | 29 | Allow the program to store all Integrated Science Students grades to a file | |  | Pass |
| i | | | |  | integer | 2 | Allow the program to count the number of students for each iteration | |  | Pass |
| Students[i].fullName | | | |  | String | Han | Allow the program to store all students full name to a file | |  | Pass |
| Students[i].mathGrade | | | |  | *String* | 83 | Allow the program to store all math students grades to a file | |  | Pass |
| Students[i].engGrade | | | |  | String | 34 | Allow the program to store all English students grades name to a file | |  | Pass |
| Students[i].phyEdGrade | | | |  | String | 98 | Allow the program to store all Physical Education students grades to a file | |  | Pass |
| Students[i].inteSciGrade | | | |  | String | 73 | Allow the program to store all Integrated Science Students grades to a file | |  | Pass |
| option | | | |  | integer | 4 | Allow the program to store and execute the user option from the menu to manage class | |  | Pass |
| option | | | |  | integer | 1 | Allow the program to store and execute the user option from the menu to add students to the class | |  | Pass |
| className | | | |  | String | user | To allow program to store the name of the class | |  | Pass |
| tUsername | | | |  | String | pass | To allow program to store the name of the class teacher | |  | Pass |
| tPass | | | |  | String | user | To grant user full access to the program | |  | Pass |
| isLogged | | | |  |  | user  pass | To ensure the right username and password is enter to allow the user access | |  | Pass |
| tUsername | | | |  | String | user | To allow program to compare the stored name of the class teacher with what was entered for login | |  | Pass |
| tPassword | | | |  | String | pass | To allow program to compare the stored the teacher’s password with what was entered for login | |  | Pass |
| Students[i].fullName | | | |  | String | Jan | Allow the program to store all students full name to a file | |  | Pass |
| Students[i].mathGrade | | | |  | *String* | *100* | Allow the program to store all math students grades to a file | |  | Pass |
| Students[i].engGrade | | | |  | String | *29* | Allow the program to store all English students grades name to a file | |  | Pass |
| Students[i].phyEdGrade | | | |  | String | *42* | Allow the program to store all Physical Education students grades to a file | |  | Pass |
| Students[i].inteSciGrade | | | |  | String | *39* | Allow the program to store all Integrated Science Students grades to a file | |  | Pass |
| i | | | |  | integer | 1 | Allow the program to count the number of students for each iteration | |  | Pass |
| Students[i].fullName | | | |  | String | Wan | Allow the program to store all students full name to a file | |  | Pass |
| Students[i].mathGrade | | | |  | *String* | 23 | Allow the program to store all math students grades to a file | |  | Pass |
| Students[i].engGrade | | | |  | String | 49 | Allow the program to store all English students grades name to a file | |  | Pass |
| Students[i].phyEdGrade | | | |  | String | 11 | Allow the program to store all Physical Education students grades to a file | |  | Pass |
| Students[i].inteSciGrade | | | |  | String | 29 | Allow the program to store all Integrated Science Students grades to a file | |  | Pass |
| i | | | |  | integer | 2 | Allow the program to count the number of students for each iteration | |  | Pass |
| Students[i].fullName | | | |  | String | Han | Allow the program to store all students full name to a file | |  | Pass |
| Students[i].mathGrade | | | |  | *String* | 83 | Allow the program to store all math students grades to a file | |  | Pass |
| Students[i].engGrade | | | |  | String | 34 | Allow the program to store all English students grades name to a file | |  | Pass |
| Students[i].phyEdGrade | | | |  | String | 98 | Allow the program to store all Physical Education students grades to a file | |  | Pass |
| Students[i].inteSciGrade | | | |  | String | 73 | Allow the program to store all Integrated Science Students grades to a file | |  | Pass |
| option | | | |  | integer | 4 | Allow the program to store and execute the user option from the menu to manage class | |  | Pass |
| option | | | |  | integer | 1 | Allow the program to store and execute the user option from the menu to add students to the class | |  | Pass |
| className | | | |  | String | user | To allow program to store the name of the class | |  | Pass |
| tUsername | | | |  | String | pass | To allow program to store the name of the class teacher | |  | Pass |
| tPass | | | |  | String | user | To grant user full access to the program | |  | Pass |
| isLogged | | | |  |  | user  pass | To ensure the right username and password is enter to allow the user access | |  | Pass |
| tUsername | | | |  | String | user | To allow program to compare the stored name of the class teacher with what was entered for login | |  | Pass |
| tPassword | | | |  | String | pass | To allow program to compare the stored the teacher’s password with what was entered for login | |  | Pass |
| Students[i].fullName | | | |  | String | Jan | Allow the program to store all students full name to a file | |  | Pass |
| Students[i].mathGrade | | | |  | *String* | *100* | Allow the program to store all math students grades to a file | |  | Pass |
| Students[i].engGrade | | | |  | String | *29* | Allow the program to store all English students grades name to a file | |  | Pass |
| Students[i].phyEdGrade | | | |  | String | *42* | Allow the program to store all Physical Education students grades to a file | |  | Pass |
| Students[i].inteSciGrade | | | |  | String | *39* | Allow the program to store all Integrated Science Students grades to a file | |  | Pass |
| i | | | |  | integer | 1 | Allow the program to count the number of students for each iteration | |  | Pass |
| Students[i].fullName | | | |  | String | Wan | Allow the program to store all students full name to a file | |  | Pass |
| Students[i].mathGrade | | | |  | *String* | 23 | Allow the program to store all math students grades to a file | |  | Pass |
| Students[i].engGrade | | | |  | String | 49 | Allow the program to store all English students grades name to a file | |  | Pass |
| Students[i].phyEdGrade | | | |  | String | 11 | Allow the program to store all Physical Education students grades to a file | |  | Pass |
| Students[i].inteSciGrade | | | |  | String | 29 | Allow the program to store all Integrated Science Students grades to a file | |  | Pass |
| i | | | |  | integer | 2 | Allow the program to count the number of students for each iteration | |  | Pass |
| Students[i].fullName | | | |  | String | Han | Allow the program to store all students full name to a file | |  | Pass |
| Students[i].mathGrade | | | |  | *String* | 83 | Allow the program to store all math students grades to a file | |  | Pass |
| Students[i].engGrade | | | |  | String | 34 | Allow the program to store all English students grades name to a file | |  | Pass |
| Students[i].phyEdGrade | | | |  | String | 98 | Allow the program to store all Physical Education students grades to a file | |  | Pass |
| Students[i].inteSciGrade | | | |  | String | 73 | Allow the program to store all Integrated Science Students grades to a file | |  | Pass |
| 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 |
| className | | | |  | String | user | To allow program to store the name of the class | |  | Pass |
| tUsername | | | |  | String | pass | To allow program to store the name of the class teacher | |  | Pass |
| tPass | | | |  | String | user | To grant user full access to the program | |  | Pass |
| isLogged | | | |  |  | User/  pass | To ensure the right username and password is enter to allow the user access | |  | Pass |
| tUsername | | | |  | String | user | To allow program to compare the stored name of the class teacher with what was entered for login | |  | Pass |
| tPassword | | | |  | String | pass | To allow program to compare the stored the teacher’s password with what was entered for login | |  | 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 |
| 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 |
| className | | | |  | String | user | To allow program to store the name of the class | |  | Pass |
| tUsername | | | |  | String | pass | To allow program to store the name of the class teacher | |  | Pass |
| tPass | | | |  | String | user | To grant user full access to the program | |  | Pass |
| isLogged | | | |  |  | User/  pass | To ensure the right username and password is enter to allow the user access | |  | Pass |
| tUsername | | | |  | String | user | To allow program to compare the stored name of the class teacher with what was entered for login | |  | Pass |
| tPassword | | | |  | String | pass | To allow program to compare the stored the teacher’s password with what was entered for login | |  | 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 |
| 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 |
| className | | | |  | String | user | To allow program to store the name of the class | |  | Pass |
| tUsername | | | |  | String | pass | To allow program to store the name of the class teacher | |  | Pass |
| tPass | | | |  | String | user | To grant user full access to the program | |  | Pass |
| isLogged | | | |  |  | User/  pass | To ensure the right username and password is enter to allow the user access | |  | Pass |
| tUsername | | | |  | String | user | To allow program to compare the stored name of the class teacher with what was entered for login | |  | Pass |
| tPassword | | | |  | String | pass | To allow program to compare the stored the teacher’s password with what was entered for login | |  | 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 |
| 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 |
| className | | | |  | String | user | To allow program to store the name of the class | |  | Pass |
| tUsername | | | |  | String | pass | To allow program to store the name of the class teacher | |  | Pass |
| tPass | | | |  | String | user | To grant user full access to the program | |  | Pass |
| isLogged | | | |  |  | User/  pass | To ensure the right username and password is enter to allow the user access | |  | Pass |
| tUsername | | | |  | String | user | To allow program to compare the stored name of the class teacher with what was entered for login | |  | Pass |
| tPassword | | | |  | String | pass | To allow program to compare the stored the teacher’s password with what was entered for login | |  | 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 |
| 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 remove a student under class management | |  | Pass |
| className | | | |  | String |  | To allow program to store the name of the form teacher class | |  | 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 |
| studentName | | | |  | String | Pan | Allow program find full name of a student | |  | Pass |
| islogged | | | |  |  |  | Used to check if the password given match those within the file | |  | Pass |
| readUsername | | | |  | String | user | To allow program to compare the stored name of the class teacher with what was entered for login | |  | Pass |
| readPassword | | | |  | String | pass | To allow program to compare the stored the teacher’s password with what was entered for login | |  | Pass |
| Student[i].fullName | | | |  | String | Pan | Allow program store full name of a student | |  | Pass |
| Student[i].mathGrade | | | |  | Integer | 45 | Allow the program to store the math grade of a student | |  | Pass |
| Student[i].engGrade | | | |  | Interger | 67 | Allow the program to store the English grade of a student | |  | Pass |
| Student[i].inteSciGrade | | | |  | Integer | 87 | Allow the program to store the Integrated Science grade of the student | |  | Pass |
| Student[i].phyEdGrade | | | |  | Integer | 32 | Allow the program to store the physical education grade of a student | |  | Pass |
| 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 remove a student under class management |  | Pass |
| className | | | |  | String |  | | To allow program to store the name of the form teacher class |  | 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 |
| studentName | | | |  | String | Pan | | Allow program find full name of a student |  | Pass |
| islogged | | | |  |  |  | | Used to check if the password given match those within the file |  | Pass |
| readUsername | | | |  | String | user | | To allow program to compare the stored name of the class teacher with what was entered for login |  | Pass |
| readPassword | | | |  | String | pass | | To allow program to compare the stored the teacher’s password with what was entered for login |  | Pass |
| Student[i].fullName | | | |  | String | Pan | | Allow program store full name of a student |  | Pass |
| Student[i].mathGrade | | | |  | Integer | 45 | | Allow the program to store the math grade of a student |  | Pass |
| Student[i].engGrade | | | |  | Interger | 67 | | Allow the program to store the English grade of a student |  | Pass |
| Student[i].inteSciGrade | | | |  | Integer | 87 | | Allow the program to store the Integrated Science grade of the student |  | Pass |
| Student[i].phyEdGrade | | | |  | Integer | 32 | | Allow the program to store the physical education grade of a student |  | Pass |
| 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 remove a student under class management |  | Pass |
| className | | | |  | String |  | | To allow program to store the name of the form teacher class |  | 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 |
| studentName | | | |  | String | Pan | | Allow program find full name of a student |  | Pass |
| islogged | | | |  |  |  | | Used to check if the password given match those within the file |  | Pass |
| readUsername | | | |  | String | user | | To allow program to compare the stored name of the class teacher with what was entered for login |  | Pass |
| readPassword | | | |  | String | pass | | To allow program to compare the stored the teacher’s password with what was entered for login |  | Pass |
| Student[i].fullName | | | |  | String | Pan | | Allow program store full name of a student |  | Pass |
| Student[i].mathGrade | | | |  | Integer | 45 | | Allow the program to store the math grade of a student |  | Pass |
| Student[i].engGrade | | | |  | Interger | 67 | | Allow the program to store the English grade of a student |  | Pass |
| Student[i].inteSciGrade | | | |  | Integer | 87 | | Allow the program to store the Integrated Science grade of the student |  | Pass |
| Student[i].phyEdGrade | | | |  | Integer | 32 | | Allow the program to store the physical education grade of a student |  | Pass |
| option | | | |  | integer | 3 | | Allow the program to store and execute the user option from the menu to view a class report |  | Pass |
| tUsername | | | |  | String |  | | 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 allow program to compare the stored name of the class teacher with what was entered for login |  | Pass |
| readPassword | | | |  | String | pass | | To allow program to compare the stored the teacher’s password with what was entered for login |  | Pass |
| heighestAverage | | | |  | Integer | 52>0 | | To determine the highest average of the students |  | 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 |
| 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 |
| highestAverageStudent | | | |  | String | Jan | | To determine the name of the highest average student |  | Pass |
| heighestMath | | | |  | Integer | student[].math Grade 23>0 | | To the determine the highest math average |  | Pass |
| heighestMathStudent | | | |  | String | Wan | | To determine the name of  The student with the highest Math average |  | Pass |
| heighestMath | | | |  | Integer | student[].math Grade 83>23 | | To the determine the highest math average |  | Pass |
| heighestMathStudent | | | |  | String | Han | | To determine the name of  The student with the highest Math average |  | Pass |
| heighestMath | | | |  | Integer | student[].math Grade 100>83 | | To the determine the highest math average |  | Pass |
| heighestMathStudent | | | |  | String | Jan | | To determine the name of  The student with the highest Math average |  | Pass |
| heighestEng | | | |  | integer | student[].eng Grade 29>0 | | To the determine the highest English average |  | Pass |
| highestEngStudent | | | |  | String | Jan | | To determine the name of  The student with the highest English average |  | Pass |
| heighestEng | | | |  | integer | student[].eng Grade 34>29 | | To the determine the highest English average |  | Pass |
| highestEngStudent | | | |  | String | Han | | To determine the name of  The student with the highest English average |  | Pass |
| heighestEng | | | |  | integer | student[].eng Grade 49>34 | | To the determine the highest English average |  | Pass |
| highestEngStudent | | | |  | String | Wan | | To determine the name of  The student with the highest English average |  | Pass |
| heighestPhyEd | | | |  | Integer | student[].phyEd Grade 11>0 | | To the determine the highest physical education average |  | Pass |
| heighestPhysEdStudent | | | |  | String | Wan | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| heighestPhyEd | | | |  | Integer | student[].phyEd Grade 39>11 | | To the determine the highest physical education average |  | Pass |
| heighestPhysEdStudent | | | |  | String | Jan | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| heighestPhyEd | | | |  | Integer | student[].phyEd Grade 98>39 | | To the determine the highest physical education average |  | Pass |
| heighestPhysEdStudent | | | |  | String | Han | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| heighestInteSci | | | |  | integer | student[].inteSci Grade 29>0 | | To the determine the highest Integrated Science average |  | Pass |
| heighestInteSciStudent | | | |  | String | Wan | | To determine the name of  The student with the highest Integrated Science average |  | Pass |
| heighestInteSci | | | |  | integer | student[].inteSci Grade 42>29 | | To the determine the highest Integrated Science average |  | Pass |
| heighestInteSciStudent | | | |  | String | Jan | | To determine the name of  The student with the highest Integrated Science average |  | Pass |
| heighestInteSci | | | |  | integer | student[].inteSci Grade 73>42 | | To the determine the highest Integrated Science average |  | Pass |
| heighestInteSciStudent | | | |  | String | Han | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| i | | | |  |  |  | |  |  |  |
| j | | | |  |  |  | |  |  |  |
| averageGrade | | | |  | Integer |  | |  |  |  |
| option | | | |  | integer | 3 | | Allow the program to store and execute the user option from the menu to view a class report |  | Pass |
| tUsername | | | |  | String |  | | 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 allow program to compare the stored name of the class teacher with what was entered for login |  | Pass |
| readPassword | | | |  | String | pass | | To allow program to compare the stored the teacher’s password with what was entered for login |  | Pass |
| heighestAverage | | | |  | Integer | 52>0 | | To determine the highest average of the students |  | 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 |
| 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 |
| highestAverageStudent | | | |  | String | Jan | | To determine the name of the highest average student |  | Pass |
| heighestMath | | | |  | Integer | student[].math Grade 23>0 | | To the determine the highest math average |  | Pass |
| heighestMathStudent | | | |  | String | Wan | | To determine the name of  The student with the highest Math average |  | Pass |
| heighestMath | | | |  | Integer | student[].math Grade 83>23 | | To the determine the highest math average |  | Pass |
| heighestMathStudent | | | |  | String | Han | | To determine the name of  The student with the highest Math average |  | Pass |
| heighestMath | | | |  | Integer | student[].math Grade 100>83 | | To the determine the highest math average |  | Pass |
| heighestMathStudent | | | |  | String | Jan | | To determine the name of  The student with the highest Math average |  | Pass |
| heighestEng | | | |  | integer | student[].eng Grade 29>0 | | To the determine the highest English average |  | Pass |
| highestEngStudent | | | |  | String | Jan | | To determine the name of  The student with the highest English average |  | Pass |
| heighestEng | | | |  | integer | student[].eng Grade 34>29 | | To the determine the highest English average |  | Pass |
| highestEngStudent | | | |  | String | Han | | To determine the name of  The student with the highest English average |  | Pass |
| heighestEng | | | |  | integer | student[].eng Grade 49>34 | | To the determine the highest English average |  | Pass |
| highestEngStudent | | | |  | String | Wan | | To determine the name of  The student with the highest English average |  | Pass |
| heighestPhyEd | | | |  | Integer | student[].phyEd Grade 11>0 | | To the determine the highest physical education average |  | Pass |
| heighestPhysEdStudent | | | |  | String | Wan | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| heighestPhyEd | | | |  | Integer | student[].phyEd Grade 39>11 | | To the determine the highest physical education average |  | Pass |
| heighestPhysEdStudent | | | |  | String | Jan | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| heighestPhyEd | | | |  | Integer | student[].phyEd Grade 98>39 | | To the determine the highest physical education average |  | Pass |
| heighestPhysEdStudent | | | |  | String | Han | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| heighestInteSci | | | |  | integer | student[].inteSci Grade 29>0 | | To the determine the highest Integrated Science average |  | Pass |
| heighestInteSciStudent | | | |  | String | Wan | | To determine the name of  The student with the highest Integrated Science average |  | Pass |
| heighestInteSci | | | |  | integer | student[].inteSci Grade 42>29 | | To the determine the highest Integrated Science average |  | Pass |
| heighestInteSciStudent | | | |  | String | Jan | | To determine the name of  The student with the highest Integrated Science average |  | Pass |
| heighestInteSci | | | |  | integer | student[].inteSci Grade 73>42 | | To the determine the highest Integrated Science average |  | Pass |
| heighestInteSciStudent | | | |  | String | Han | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| i | | | |  |  |  | |  |  |  |
| j | | | |  |  |  | |  |  |  |
| averageGrade | | | |  | Integer |  | |  |  |  |
| option | | | |  | integer | 3 | | Allow the program to store and execute the user option from the menu to view a class report |  | Pass |
| tUsername | | | |  | String |  | | 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 allow program to compare the stored name of the class teacher with what was entered for login |  | Pass |
| readPassword | | | |  | String | pass | | To allow program to compare the stored the teacher’s password with what was entered for login |  | Pass |
| heighestAverage | | | |  | Integer | 52>0 | | To determine the highest average of the students |  | 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 |
| 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 |
| highestAverageStudent | | | |  | String | Jan | | To determine the name of the highest average student |  | Pass |
| heighestMath | | | |  | Integer | student[].math Grade 23>0 | | To the determine the highest math average |  | Pass |
| heighestMathStudent | | | |  | String | Wan | | To determine the name of  The student with the highest Math average |  | Pass |
| heighestMath | | | |  | Integer | student[].math Grade 83>23 | | To the determine the highest math average |  | Pass |
| heighestMathStudent | | | |  | String | Han | | To determine the name of  The student with the highest Math average |  | Pass |
| heighestMath | | | |  | Integer | student[].math Grade 100>83 | | To the determine the highest math average |  | Pass |
| heighestMathStudent | | | |  | String | Jan | | To determine the name of  The student with the highest Math average |  | Pass |
| heighestEng | | | |  | integer | student[].eng Grade 29>0 | | To the determine the highest English average |  | Pass |
| highestEngStudent | | | |  | String | Jan | | To determine the name of  The student with the highest English average |  | Pass |
| heighestEng | | | |  | integer | student[].eng Grade 34>29 | | To the determine the highest English average |  | Pass |
| highestEngStudent | | | |  | String | Han | | To determine the name of  The student with the highest English average |  | Pass |
| heighestEng | | | |  | integer | student[].eng Grade 49>34 | | To the determine the highest English average |  | Pass |
| highestEngStudent | | | |  | String | Wan | | To determine the name of  The student with the highest English average |  | Pass |
| heighestPhyEd | | | |  | Integer | student[].phyEd Grade 11>0 | | To the determine the highest physical education average |  | Pass |
| heighestPhysEdStudent | | | |  | String | Wan | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| heighestPhyEd | | | |  | Integer | student[].phyEd Grade 39>11 | | To the determine the highest physical education average |  | Pass |
| heighestPhysEdStudent | | | |  | String | Jan | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| heighestPhyEd | | | |  | Integer | student[].phyEd Grade 98>39 | | To the determine the highest physical education average |  | Pass |
| heighestPhysEdStudent | | | |  | String | Han | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| heighestInteSci | | | |  | integer | student[].inteSci Grade 29>0 | | To the determine the highest Integrated Science average |  | Pass |
| heighestInteSciStudent | | | |  | String | Wan | | To determine the name of  The student with the highest Integrated Science average |  | Pass |
| heighestInteSci | | | |  | integer | student[].inteSci Grade 42>29 | | To the determine the highest Integrated Science average |  | Pass |
| heighestInteSciStudent | | | |  | String | Jan | | To determine the name of  The student with the highest Integrated Science average |  | Pass |
| heighestInteSci | | | |  | integer | student[].inteSci Grade 73>42 | | To the determine the highest Integrated Science average |  | Pass |
| heighestInteSciStudent | | | |  | String | Han | | To determine the name of  the student with the highest Integrated Science average |  | Pass |
| i | | | |  |  |  | |  |  |  |
| j | | | |  |  |  | |  |  |  |
| averageGrade | | | |  | Integer |  | |  |  |  |
|  | | | |  |  |  | |  |  |  |
|  | | | |  |  |  | |  |  |  |
|  | | | |  |  |  | |  |  |  |
| option | | | |  | integer | 2 | | Allow the program to store and execute the user option from the menu to remove a class |  | Pass |
| className | | | |  | String |  | | To allow program to store the name of the form teacher class to confirm the existence of a file for that class |  | Pass |
|  |  |
| option | | | |  | integer | 2 | | Allow the program to store and execute the user option from the menu to remove a class |  | Pass |
| className | | | |  | String |  | | To allow program to store the name of the form teacher class to confirm the existence of a file for that class |  | Pass |
| tUsername | | | |  | String | user@3 | | To allow program to store the name of the class teacher |  | Pass |
| tPassword | | | |  | String | Pass1123 | | To grant the user full access to the program |  | Pass |
| readUsername | | | |  | String | user | | To ensure the right username is enter to allow the user access to the class file |  | Pass |
| readPassword | | | |  | String | pass | | To ensure the right password is enter to allow the user access to the class file |  | Pass |
|  |  |
| option | | | |  | integer | 2 | | Allow the program to store and execute the user option from the menu to remove a class |  | Pass |
| className | | | |  | String |  | | To allow program to store the name of the form teacher class to confirm the existence of a file for that class |  | 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 |
| readUsername | | | |  | String | user | | To ensure the right username is enter to allow the user access to the class file |  | Pass |
| readPassword | | | |  | String | pass | | To ensure the right password is enter to allow the user access to the class file |  | Pass |
| status | | | |  | integer |  | | Used to show that the class is being removed. |  | Pass |
| length | | | |  | integer |  | | Used to store the number |  |  |
|  |  |