Juan Sebastian Calderon Cordoba 10551059

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#-----------------------------------------------
# Function Calculate grade


if mark is greater or equal 80 and less or equal 100
    Grade is High Distinction
else if mark is greater or equal 70 and less or equal 79
    Grade is Distinction
else if mark is greater or equal 60 and less or equal 69
    Grade is Credit
else if mark is greater or equal 50 and less or equal 59
    Grade is Pass
elif if mark is greater or equal 0 and less or equal 49
    Grade is Fail
return the value of grade
#-----------------------------------------------
# Main Code


Prompt user for number of assessments
While number of assessments are less than 1
    try next statament to handling errors
        If number of assessments are less than 1
            Display Error
        handling exception Invalid input



For each assessment
    try next statament to handling errors
        Prompt user for assessment name
    handling exception Invalid input
    Append the assessment name to the list
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    While input of the user is less than 1
        try next statament to handling errors
            Prompt user for assessment value
        handling exception Invalid input
        If input of user is less than 1
            Display error
    Append the assessments value to the list


If sum of assessment values is not 100
    Show error message
Else
    While number of students is less than 1
        try next statament to handling errors
            Prompt user for number of students
            If input of user is less than 1
                Display error
        handling exception Invalid input
    For each student
        try next statament to handling errors
            Prompt user for student name
        handling exception Invalid input
        For each assessment
            try next statament to handling errors
                Prompt user for assessment mark
            handling exception Invalid input
            If assessment mark is greater than assessment value
                Set mark to value of assessment
            Else if asessment mark is less than 0
                Set mark to 0
            Convert mark appropertely using assessment value
            Append mark to list of total marks student
            Calculate and display assessment grade
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            Calculate total mark of student

            Call function to calculate and display grade of student

            Append mark to list of total marks class

            if total mark of student is greater than total class mark

                set top student name

                set student top class mark

            clear list of total mark sudent to use in the next iteration


        Display message all Marks entered

        Calculate class average mark

        Call function to calculate grade of the class

        Display class average and top student details


Promt user to press any key to end the program
#----------------------------------------------
```