```
#-----
```

## # 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

Prompt user for assessment name
handling exception Invalid input
Append the assessment name to the list
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

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

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 #-----