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| **Topic** | Practical Assignment 4 Mark Sheet |
| **Assignment Type** | 🗷 Assessed 🞏 Non-assessed  🗷 Individual 🞏 Group |
| **Module** | CSE101 Computer Systems |
| **Due Date** | December 12th, 2018 (Wednesday) |
| **Student ID** | 1717576 |
| **Student Name** | Minhao Jin |
| **Marking Date** | December 12th, 2018 (Wednesday) |

Your program **MUST** be developed using Visual C++ inline assembly language.

| **Objective** | **Max Marks** | **Actual Marks** |
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| **Program can compile and run.**   * Compile with no errors. (2 marks) * Program meets all the requirements. (6 marks) * Program does not crash and ends properly. (2 marks) | 10 |  |
| **Prompt user to enter number of students between 3-10.**   * User can enter a positive integer between 3-10. (2 marks) * If user enters a number that is out of range, prompt the user again. (1 mark)   *NOTE: Do not deduct any mark should program be unable to handle user entering non-number.* | 3 |  |
| **Loop to request user to enter Student ID, Student Name and Grade.**   * User can enter Student IDs between 18000 to 18999. (5 marks) * User can enter Student Names, each with maximum length of 10 characters. (5 marks)   *NOTE: Do not deduct any mark should program be unable to handle user entering symbol.*   * User can enter Grades between 0-100. (5 marks) | 15 |  |
| **Display the correct post-fixed numbering for each entry request message, e.g.** Enter Student ID [1], Enter Student Name [1], Enter Grade [1]**, etc.** | 2 |  |
| **Prompt user to re-enter Student ID, Student Name or Grade that does not meet requirements.**   * Display the correct warning message when a requirement is not met. (3 marks) * User can re-enter Student ID, Student Name or Grade. (2 marks) | 5 |  |
| **Display numbered list of Student IDs, Student Names and Grades, sorted from highest to lowest grades.**  *Note: Deduct 3 marks if the list is not numbered properly.* | 10 |  |
| **Display mean and standard deviation of grades, and the number of students who have failed.**   * Correctly display mean of grades. (1 mark) * Correctly display standard deviation of grades. (1 mark) * Correctly display number of students who failed if their grades are below 40 (not inclusive). (3 marks) | 5 |  |
| **Well-commented, stapled program listing for your solution.**  Suggested breakdown of marks:   * Used official cover sheet. (5 marks) * Developed using Visual C++ inline assembly language. (10 marks) * Codes works and are efficient with no redundancy. (15 marks) * Codes are tidy and properly aligned, i.e. spaced or tabbed. (5 marks) * Labels and variables are clear and descriptive. (5 marks) * Sufficient comments that are clear and descriptive. (10 marks)   *NOTE: Do not deduct any mark if student did not comment on every single line of codes. It is not a requirement to do so.* | 50 |  |
| **Total** | 100 |  |

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