**ComSci IB\_301 Timed Test 1 IO Question Marking Rubric**

Mark is based on submitted work and code will be examined using the following criteria.

(\_\_\_/\_45\_\_)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Programming** | **5** |  | **3** |  | **1** |
| ***Code readability***  ***Internal documentation*** | Code is well-written, with consistent indentation, adequate white-space, avoids long lines  Code is thoroughly documented |  | Code is readable but indentation, white-space, line length could all be improved  Documentation is partially done |  | Code is haphazard and hard to understand  Documentation is very sparse |
| ***Design*** | Programs are well planned, well organized, modular, easy to maintain or enhance |  | Programs could be organized better, could be difficult to maintain or enhance |  | Programs in need of more organization, look like they were written without much planning |
|  |  |  |  |  |  |
| ***Theoretical Understanding*** | Code and documentation indicates a deep understanding of the concepts of IO, data structures and error handling and these have been applied with mastery |  | Code and documentation indicates an understanding of the concepts of IO, data structures and error handling that shows strengths in one or the other, not balanced and has been applied in a format that could have been improved on. |  | Code and documentation indicates an understanding of the concepts of IO, data structures and error handling that has serious omissions, could be significantly improved on or is difficult to determine whether there is an understanding of the concepts. |
| ***Input Output*** |  |  |  |  |  |
| ***Meeting requirements :***  ***Scanner - Input*** | Created and used effectively |  | Partially implemented with some improvement possible |  | Flaws impact on the program function. |
| ***Meeting requirements :***  ***Output: Using FileWriter PrintWriter*** | Created, used effectively and closed appropriately |  | Partially implemented with some improvement possible |  | Flaws impact on the program function. |
| ***Meeting requirements :***  ***Navigating input file (nextLine()/next())***  ***Meeting requirements :***  ***Using parse and/or tokenizer while reading data into appropriate data-type.*** | Created and used effectively  Created and used effectively |  | Partially implemented with some improvement possible  Partially implemented with some improvement possible |  | Flaws impact on the program function.  Flaws impact on the program function. |
|  |  |  |  |  |  |
| ***Meeting requirements :***  ***Data Structures and manipulation of data (calculating averages and assigning 0 if a 0 is encountered)*** | ArrayList constructed effectively and objects stored to the list.  (or other appropriate data structure) |  | There is some implementation but could be improved on or is partially implemented. |  | Serious bugs or flaws in the implementation. |
| ***Meeting requirements :***  ***Data Structures and manipulation of data (using if/elses to determine top 3 for each category)*** | ArrayList is accessed appropriately and top 3’s determined accurately.  (or other appropriate data structure) |  | There is some implementation but could be improved on or is partially implemented. |  | Serious bugs or flaws in the implementation. |
|  |  |  |  |  |  |
| ***Meeting requirements :***  ***Choice of own additional feature, explained appropriately and functions appropriately*** | Created and used effectively |  | Partially implemented with some improvement possible |  | Flaws impact on the program function. |

**General Comments:**

See bottom of Code.