

**CISP1020 Computer Science II Project**

# Grading System

The main objective if this project is to manage the details of Students, quizzes grades, exams grades, lab assignments (programing) grades, attendance grades, and projects grades. The objective of this project is to reduce the manual work for managing student’s final grades.

# Functionality Provided By the Project

* Provides the searching based on various factor (minimum based on student last name)
* Convert Numerical grade to letter grade system based on different schemas (examples of schemas will be provided)
* Provides ability of dropping the lowest grade from quizzes and lab assignments section.
* Print final report:
  + Option 1: Sorted by last name alphabetically descending order.
  + Option 2: Sorted by final grade descending order.
* Error handling and input validation.
* Read Student and/or grade information from a text file.
* Implement inheritance and interfaces (if applicable).

# Grading Scale – Total 100 points

1. 40 points – Properly designed classes – Following naming conventions, proper indentations, documenting code, encapsulation, Class Structure, etc.
2. 20 points – Completeness
   1. Error free execution (10 points – all or nothing)
   2. Following program parameters (10 points – all or nothing)
3. 20 points – Presentation – All team members must be familiar with entire project, not just own code
   1. Team Presentation (power point or similar) (10 points)
   2. Individual explanation of design (5 points)
   3. Individual explanation of code (5 points)
4. 20 points – Peer Review
   1. Design Participation (5 points)
   2. Code Contribution (5 points)
   3. Punctuality of Assigned Tasks (5 points)
   4. Quality of Work (5 points)

**You may discuss concepts and assist each other but all work must be your own (as team). Any violations to Academic Integrity will result in a zero (0) for the project and potential automatic failure for the class.**

# Grading Schemas:

## Schema 2:

| **Percentage** | **Grade** |
| --- | --- |
| 90 – 100 | A |
| 80 – 89 | B |
| 70 – 79 | C |
| 65 – 69 | D |
| Below 65 | F |

## Schema 1:

| **Percentage** | **Grade** |
| --- | --- |
| 90 – 100 | A |
| 80 – 89 | B |
| 70 – 79 | C |
| 60 – 69 | D |
| Below 60 | F |

## Schema 3:

| **Percentage** | **Grade** |
| --- | --- |
| 95 – 100 | A+ |
| 90 – 94 | A |
| 85 – 89 | B+ |
| 80 – 84 | B |
| 70 – 79 | C |
| 65 – 69 | D |
| Below 65 | F |

# Grade Distribution

| **Assessment** | **Total Count** | **Percentage** |
| --- | --- | --- |
| Quizzes | 5 | 20% |
| Lab Assignments | 5 | 20% |
| Project(s) | 1 | 10% |
| Exam 1 | 1 | 20% |
| Exam 2 | 1 | 20% |
| Attendance | 1 | 10% |
| Total | N/A | 100% |

# Sample Report applying Schema 1 (All Quizzes and Lab Assignments counted):

# 

# Sample Report applying Schema 1 (All Quizzes and Lab Assignments lowest dropped):



# Sample Report applying Schema 2 (All Quizzes and Lab Assignments counted):



# Sample Report applying Schema 2 (All Quizzes and Lab Assignments lowest dropped):



# Sample Report applying Schema 3 (All Quizzes and Lab Assignments counted):



# Sample Report applying Schema 3 (All Quizzes and Lab Assignments lowest dropped):

