**INSTITUTE OF INFORMATION TECHNOLOGY UNIVERSITY OF DHAKA**

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**UNIVERSITY OF DHAKA**

**POST GRADUATE DIPLOMA IN INFORMATION TECHNOLOGY**

**Assignment**

**On**

**Decision Table**

Course Title: Introduction to Software Engineering

Course Code: PGD-105

Semester: 1”

Assignment: #1

|  |  |
| --- | --- |
| Submit By  Md Saul Hamidur Rahman  Roll: 1730 | Submit To  Md. Mahbubul Alam Joarder  Professor  Course: Introduction to Software Engineering (PGD-105) |

Problems

A student may receive a final course grade of A, B, C, D, or F. In deriving the student's final course grade, the instructor first determines an initial or tentative grade for the student, which is determined in the following manner:

A student who has received a total of no lower than 90 percent on the first three assignments and exams and received a score no lower than 70 percent on the fourth assignment will receive an initial grade of A for the course.

A student who has scored a total lower than 90 percent but no lower than 80 percent on the first three assignments and exams and received a score no lower 70 percent on the fourth assignment will receive an initial grade of B for the course.

A student who has received a total lower than 80 percent but no lower than 70 percent on the first three assignments and exams and received a score no lower than 70 percent on the fourth assignment will receive an initial grade of C for the course.

A student who has scored a total lower than 70 percent but no lower than 60 percent on the first three assignments and exams and received a score no lower 70 percent on the fourth assignment will receive an initial grade of D for the course.

A student who has scored a total lower than 60 percent on the first three assignments and exams, or received a score lower than 70 percent on the fourth assignment, will receive an initial grade of F for the course.

Once the instructor has determined the initial course grade for the student, the final course grade will be determined. The student's final course grade will be the same as his or her initial course grade if no more than three class periods during the semester were missed. Otherwise, the student's final course grade will be one letter grade lower than his or her initial course grade (for example, an A will become a B).

Solution: Decision Table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Rules | | | | |
|  | Conditions | 1 | 2 | 3 | 4 | 5 |
| 1 | First Three Assignment >=90 | y |  |  |  |  |
| 2 | First Three Assignment <90 |  | y |  |  |  |
| 3 | First Three Assignment >=80 |  | y |  |  |  |
| 4 | First Three Assignment <80 |  |  | y |  |  |
| 5 | First Three Assignment >=70 |  |  | y |  |  |
| 6 | First Three Assignment <70 |  |  |  | y |  |
| 7 | First Three Assignment >=60 |  |  |  | y |  |
| 8 | First Three Assignment <60 |  |  |  |  | y |
| 9 | Fourth assignment >=70 | y | y | y | y | y |
|  | Actions | 1 | 2 | 3 | 4 | 5 |
| 1 | A | y |  |  |  |  |
| 2 | B |  | y |  |  |  |
| 3 | C |  |  | y |  |  |
| 4 | D |  |  |  | y |  |
| 5 | E |  |  |  |  |  |
| 6 | F |  |  |  |  | y |