

CS110: Computer Programming Lab
Department of CSE
IIT, Guwahati

Module 02 Stage 02 Exercise 08

Problem description

The program that the student is asked to write for this exercise could provide guidance to CS110 students regarding their final grades.

To determine the final grade the program will first ask the student to provide their post mid-semester academic information. This program is designed only for the students who completed all five drills before the mid-semester examination but could pass only the examination for Module 1 in mid-semester. The student is now required to retrain for module 2 again by doing at least 2 drills from the module. The student can do any two stages or all stages from the module for retraining.

Your program is only useful to a student in the situation described above. Your program need not cover the requirements of the other students.

The program will first ask information from the student for each of the 7 weeks after the mid-semester examination. Each information provided will be made of three parts separated by a white-space. For example, the program prompts the student for information by printing:

```
Enter module, stage and grade for week 8 (m s G):
```

The message may be replied by response: 2 1 C.

The information indicates that the student got a continuing grade for Module 2 Stage 1 in that week (Note: The valid grades for response are: A, a, C, c, E, e. The grade of Good must be entered in its revised version *Continuing* (C) or Excellent (E).

Examinations are specified by their module number only. For example, 3. The grade set for the examinations are same as in the drills.

The program must report, the final grade for the student. The program must print message `Incorrect input` if the data entered is inconsistent with the assessment rules of CS110 or any value entered is wrong. For example, if a student does not have adequate drills for an examination but grade Excellent or Continuing has been provided as the examination result the input should be reported as incorrect or program end prematurely through an assert declaration failure.