ITP HOMEWORK 1

Design a grade calculator for ITP students. ITP course evaluation criteria is below.

- Midterm (%25)
  Consists of 5 multiple-choice questions (20 pts each).
- Quiz (%15)
  Consists of 20 multiple-choice questions (5 pts each).
- Final (%50)
  Consists of 1 programming question (100 pts).
- In-class performance grade (%10)

Ask the user how many questions of midterm and quiz he answered correctly and check the answers whether they are in valid interval or not (0-5 for midterm and 0-20 for quiz). Also ask the final exam grade. The program should randomly determine the in-class performance grade between 1 and 100 points. The program should calculate the total grade and decide on the student's letter grade. The letter grade scale is below. Be attention, if the student's final exam grade is below 50, it will fail.

Overall Grade	Letter Grade	Description
>=90	A	Successful
>=80	B	Successful
>=65	C	Successful
>=50	D	Conditional pass
<50	F	Fail

Afterall, you should give message of midterm, quiz, final and in-class performance scores and overall grade, letter grade, and description to user.

*-Your class name **must** be "HW + your student ID", i.e. "**HW220315000.java**"*
*-Upload just single **.java** file, not all project, word document, or zip file etc.*
*-Write your name, surname, and student ID at the beginning of code **as comment lines**.*
*-Write all your work in a single **main** method.*
*-Due date: **Oct 28th, 23:59***
*-There are two different assignments in Microsoft Teams for **formal education/ night education**. Upload your work only to related assignment.*