

Programming Assignment: Student Grades System

Each function below represents a separate question. Students are expected to implement each function independently based on the provided docstring and requirements. Do not copy code directly—understand the logic and write your own version.

Function 1: Get Grades from the User

Write a function called `get_grades` that does the following:

- Asks the user for the number of subjects.
- Prompts the user to enter a grade for each subject.
- Stores and returns the grades in a list.

Example terminal interaction:

Enter the number of subjects: 3

Enter the grade for subject 1: 70

Enter the grade for subject 2: 80

Enter the grade for subject 3: 90

Function 2: Calculate Average Grade

Write a function called `calculate_average` that:

- Takes a list of grades.
- Returns the average grade.
- If the list is empty, return 0.

Function 3: Assign Letter Grade

Write a function called `assign_letter_grade` that:

- Takes an average grade as input.
- Returns a letter grade based on the following scale:
90 and above: 'A'

80-89: 'B'

70-79: 'C'

60-69: 'D'

Below 60: 'F'

Note: return the letter ONLY (without the ranges text).