Assignment 6

In this exercise, you will be working with a dataset containing information about student performance in various subjects. The dataset is available in CSV format and contains the following columns:

- Student ID
- Subject
- Score

You are tasked with analyzing the data to answer the following questions:

1. **Average Score by Subject:** Calculate the average score for each subject.
2. **Score Distribution:** Determine the distribution of scores across all subjects.
3. **Correlation Analysis:** Investigate the correlation between scores in different subjects.
4. **Topper Identification:** Identify the student with the highest overall score.
5. **Subject Performance Comparison:** Compare the performance of different subjects and identify the subject with the highest average score.
6. **Grade Distribution:** Determine the grade distribution (A, B, C, D, F) for each subject.

You may use Python libraries such as pandas and numpy for data manipulation and analysis.

Good luck!