

## Node JS console application

### Question 1

#### Objective:

Using Node.js, create a console-based application that reads a student's name and score from the user, then determines and outputs the corresponding grade using the following grading scale:

#### Score Range Grade

80 - 100	A
70 - 79	B
60 - 69	C
50 - 59	D
40 - 49	E
Below 40	F

#### Conditions:

- Use the **REPL** environment or any preferred development environment.
- The application should take the student's **name** and **score** as inputs.
- Based on the score, the app should output the student's **name** along with the corresponding **grade**.

#### Steps:

1. Use `const readline = require('readline');` to setup input
2. Prompt the user to input the student's name.
3. Prompt the user to input the student's score.
4. Check the score against the grading scale and assign the appropriate grade.
5. Output the student's name and the corresponding grade.

### Question 2:

Using Node.js, create a console-based application that reads multiple students' names and scores from the user in a single session, stores them in an array, and calculates the following statistics at the end of the session:

- Highest score and the corresponding student's name.
- Lowest score and the corresponding student's name.
- Average score of the class.

- Count of students who scored each grade (A, B, C, D, E, F).

**Grading Scale:**

**Score Range Grade**

80 - 100      A

70 - 79        B

60 - 69        C

50 - 59        D

40 - 49        E

Below 40      F

**Conditions:**

- The application should repeatedly prompt the user to input the names and scores of students until the user enters a special keyword (e.g., "done") to indicate the end of input.
- After receiving all inputs, the application should output:
  - The **student with the highest score** and their score.
  - The **student with the lowest score** and their score.
  - The **average score** of the entire class.
  - The **number of students** in each grade category (A, B, C, D, E, F).