

Question: 3. Calculate Numbers (GPA Calculator)

You are developing a C# console application to calculate the GPA of a student based on the numbers (marks/grades) scored in different subjects.

In the `Program` class, a static list is already provided in the code template:

```
public static List<int> NumberList;
```

You need to implement the following methods inside the `Program` class.

Method 1: Add Numbers to the List

```
public void AddNumbers(int Numbers)
```

Description:

- This method should add the given `Numbers` to `NumberList`.
 - The value is passed as an argument to the method.
-

Method 2: Calculate GPA

```
public double GetGPAScored()
```

Description:

This method is used to calculate and return the GPA based on the numbers stored in `NumberList`.

The GPA is calculated using the following formula:

$$GPA = \frac{(Number_1 \times 3) + (Number_2 \times 3) + \dots + (Number_n \times 3)}{(List\ Count \times 3)}$$

Note: The credit point for each subject is **3**.

- If the list is empty, return **-1** and print:
- `No Numbers Available`

in the `Main` method.

Method 3: Determine Grade Based on GPA

```
public char GetGradeScored(double gpa)
```

Description:

This method takes the calculated `gpa` as input and returns the corresponding grade based on the table below:

GPA Range Grade

Equal to 10 A

> 9 and < 10 B

≥ 8 and < 9 C

≥ 7 and < 8 D

≥ 6 and < 7 E

≥ 5 and < 6 F

- If `gpa < 5` or `gpa > 10`, return a **null character** (`'\0'`) and print:
- Invalid GPA

in the `Main` method.

In the Main Method:

1. Accept numbers from the user and add them to `NumberList`.
2. Call `GetGPAScored()` to calculate GPA.
3. Call `GetGradeScored(gpa)` to determine the grade.
4. Display the GPA and Grade.