



# Mastering C# and .NET

Your Journey into Modern Programming



# TASK 1: STUDENT GRADING SYSTEM

Description: Create a C# console app that asks the user to enter 5 student names and their grades. Then calculate and display the average grade, the highest and lowest grade.

Requirements:- Use a List or Array to store the student names and grades.- Use loops to iterate over the data.- Use conditional statements to find the top and lowest grades.

Example Output:

Enter student name: Ahmed

Enter grade: 85

Average grade: 78.4

Top student: Mariam (95)

Lowest student: Ali (60)



## TASK 2: BANK ACCOUNT SIMULATOR

Description: Simulate a simple banking system that allows:

- Creating an account (with name and balance)
- Depositing money- Withdrawing money
- Checking balance

Requirements:-

- Use a class with functions (Deposit, Withdraw, ShowBalance)
- Handle negative balance or invalid withdrawals
- Use loops and user input

Example Output:

Welcome to Mini Bank!

Enter name: Ahmed

Enter initial balance: 1000

1. Deposit

2. Withdraw

3. Show Balance4. Exit



## TASK 3: ADVANCED TEXT ANALYZER

Description: Write a C# console app that analyzes a paragraph entered by the user.

The program should:

- Count total words
- Count total sentences
- Find the most frequent word
- Count vowels and consonants