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CS 222 50 - C# Programming

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WEEK 7 PROJECT

Program Title:

Typing Blast

Purpose of the Program:

Typing Blast is a simple and interactive console-based C# application designed to help users measure and improve their typing speed and accuracy. The program simulates a typing test where users are given a short paragraph to type as quickly and accurately as possible. It calculates Words Per Minute (WPM) and accuracy percentage, and it provides color-coded feedback and performance explanations based on the user's results.

Key Features:

- Displays a randomly generated 3-sentence paragraph in a clean, single-line format.
- Starts with a countdown timer to prepare the user.
- Measures how long the user takes to type the paragraph.

- Calculates:
    - WPM: based on number of words and time taken.
    - Accuracy: by comparing each typed word to the original paragraph.
- Shows results in a color-coded format:
    - Green: Excellent | WPM ≥ 60 | Accuracy ≥ 90%
    - Yellow: Decent | WPM ≥ 40 and < 60 | Accuracy ≥ 70% and < 90%
    - Red: Needs improvement | WPM < 40 | Accuracy < 70%
- Offers the option to retry or quit after each attempt.
- Clean visual layout using centered headings and dashed lines for sections.

Sample Data Used for Testing:

The program uses a built-in list of realistic practice sentences, randomly shuffled and combined into a 3-sentence paragraph. Examples of these sentences include:

- "Typing is a skill worth improving."
- "Stay focused and breathe evenly."
- "Let your fingers find the rhythm."

How the Program Was Tested:

- Typing was tested at the three speeds (slow, moderate, and fast).
- Accuracy was intentionally varied (perfect typing, partial errors, and significant errors).
- Colors and explanations were verified for each level.
- Console formatting was tested by resizing the terminal window.