50%

Ranken Technical College - C# Hands-On Test Chapters 2-3

Instructions:

1. Create a single C# console application solution in Visual Studio. Name the solution HandsOnTestCH03.
2. Within this solution, create three separate C# console projects:
   * EX1
   * EX2
   * EX3
3. Write the code for each problem within its respective project.
4. Submit your completed work by pushing the entire HandsOnTestCH03 solution directory to your online GitHub repository in the /HandsOnTest/CH03/ directory.

Grading:

* Solution and Submission (20 points total)
  + All three projects (EX1, EX2, and EX3) are included in a single solution named HandsOnTestCH03. - 10 points
  + The HandsOnTestCH03 solution is correctly submitted to the online GitHub repository in the /HandsOnTest/CH03/ directory. - 10 points
* EX1: (15 points)
  + Write a C# console program named EX1 that asks the user for their name and prints the following message: "Hello, yourName!" (where yourName is the user's full name).
  + Grading Criteria:
    - EX1 compiles and runs without errors. - 15 points
* EX2: (25 points)
  + Write a C# console program named EX2 that asks the user for three real numbers and prints the average value of those numbers.
  + Grading Criteria:
    - EX2 provides correct mathematical results for some sets of three numbers. - 20 points
    - EX2 provides correct mathematical results for *any* three given numbers. - 5 points
* EX3: (40 points)
  + Write a C# console program named EX3 that prompts the user for the following information:
    - Name
    - Street address
    - City
    - State
    - Zip code
    - Quantity of t-shirts ordered (at $14.99 each)
  + Display all the input data in a clear and organized format (similar to the example below).
  + Calculate and display the following:
    - Total Price: Calculated as (quantity ordered) \* (price per t-shirt)
    - Sales Tax: Calculated as 8% of the total price
    - Amount Due: Calculated as (total price) + (sales tax)
  + Example Output Format:

Name: John Doe

Street Address: 123 Main St

City: Anytown

State: CA

Zip Code: 91234

Quantity: 10

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Total Price: $149.90

Sales Tax: $11.99

Amount Due: $161.89

* + Grading Criteria:
    - EX3 correctly uses appropriate data types for all input values (zip code may be stored as a string). - 15 points
    - EX3 displays the output in a clear, organized, and user-friendly format, including all requested information. - 20 points
    - EX3 displays all monetary values (Total Price, Sales Tax, Amount Due) in the correct currency format (e.g., with a dollar sign and two decimal places) using a format string. - 5 points