C# Exercise 2 – Variables and Data Types

1. Create 5 variables to hold the following information about a student. You should create at least one of each of these variable types [int, double, char, bool and string]:
    a. The student's name is Sam
    b. They are studying History
    c. Their course duration is 4 years
    d. Sam's average exam result percentage is 78.5
    e. Sam's expected grade is an A
    f. Sam is living in student halls of residence

2. Using concatenation and the variables you created in part 1, output the following to the console:

    My name is **Sam**, and I am a student studying a **4-**year course in **History**.
    I have an exam average of **78.5**% which means I am on track to get a grade **A**.

3. Create 4 Integer variables named W, X, Y and Z with values 3, 4, 6 and -2.
    a. Create a new variable that will store the sum of W, X, Y and Z (e.g., add them all up)
    b. Create a new variable that will store the product of W, X, Y and Z (e.g., multiply them all together)
    c. Create a new variable that will store the average of W, X, Y and Z (e.g., the sum of the numbers, divided by 4)
    d. Print out the Sum, Product and Average in the following format:
        i. The Sum is: <your answer>
        ii. The Product is: <your answer>
        iii. The Average is: <your answer>

4. Sue, Paul, Dave, Amy and Mark are all competing in a race.
    a. Create an Array of Strings that holds their final race positions in the following order:
        {"1st - Sue", "4th - Paul", "3rd - Dave", "5th - Amy", "2nd - Mark"}
    b. Using the correct indexes, print out the results of the race in order of final race position: e.g., your output should look like this
        1st – Sue
        2nd – Mark
        3rd – Dave
        4th – Paul
        5th – Amy

Bonus

5. Instead of 'hard coding' the race positions in part 4a, try getting the final race positions as user input while the program is running, then print the final race positions as in 4b.