MIS 333K Homework 1: Football Ticket Checkout

The UT Athletics department has hired you to update some of their IT systems.  Your first task is to create a C# console application that will sell football tickets. The application should calculate the total cost for each customer’s order.

* The user will be prompted to enter the number of premium and general admission tickets.
  + The program should check to make sure the user entered a positive whole # for each type of tickets.
  + The program should have a separate method to validate the inputs. You will lose 20 points if you validate the inputs inside your main method.
  + The user can request zero tickets for either type, but not a total of zero tickets. In other words, a user can order 1 premium ticket and 0 general admission or 1 general admission and 0 premium tickets. Ordering 0 premium and 0 general tickets should cause the program to show the user an error message.
* The price for each premium ticket is $75. The price for each general admission ticket is $50. Use named constants for these amounts.
* The City of Austin is requiring us to charge 8.75% sales tax. Calculate tax and include it in the grand total.
* Display the following outputs:
  + Total number of tickets
  + Premium subtotal: price of premium tickets \* number of premium tickets
  + General admission subtotal: price of general admission tickets \* number of general admission tickets
  + Subtotal: premium subtotal + general admission subtotal
  + Sales tax: subtotal \* tax rate
  + Grand total: subtotal + tax
  + Premium Percentage: The percentage of premium tickets is the number of tickets divided by the total items. Format this output with ZERO decimal places.

Here are some examples:

* + - If the user buys 1 premium and no general admission, the percentage is 100%. (1/1= 100%)
    - If the user buys 0 premium and 1 general admission, the percentage is 0%. (0/1 = 0%)
    - If the user buys 9 premium and 1 general admission, the percentage is 90%. (9/10=90%)
* All outputs (except premium percentage) should be formatted with two decimal places
* Dollar amounts should have a $ in front.
* Make sure to include the code that will keep the console window open so that we can see the outputs.
* All other programming standards should be followed.
  + The name of your project should be LastName\_FirstName\_HW1
  + All variable names should be easy to understand related to the problem
  + All variable names should start with a data type prefix
  + Code should be consistently indented and aligned
  + Code should be commented throughout
  + Code should have white space to help the reader visually separate the parts of code (use your discretion)
  + Code should have the following header at the top of your main class:
  + //Author: (Your Name)
  + //Date: September 6, 2016
  + //Assignment: Homework 1
  + //Description: (You write a short description here)
* Submit a .zip file of your project on Canvas. You can submit as many times as you need to before the deadline. We will grade the last version you submit.