Lab 5: Best Data Plan

In this assignment we want to use and test our knowledge of if statements, Boolean conditions, and logical operators. The description of the problem is the following:

A mobile phone service provider has three different service plans for its customers. All three plans have unlimited calls and texts; they differ in price and in the amount of data.

Plan A
$39.99 per month for up to 4 gigabytes of data. Additional data costs $9.99 per gigabyte.
Plan B
$59.99 per month for up to 8 gigabytes of data. Additional data costs $4.99 per gigabyte.
Plan C
$69.99 per month for unlimited data.

In this assignment, we are to design and write a program that calculates one customer's monthly bill.

The program should prompt the user for the customer's plan (ask the customer to input character value for a plan). Then, if the customer has plan A or plan B, the program should prompt the user for the number of gigabytes the customer used (you can use an integer number to input this value).

Based on those input values, the program should then display the total invoice amount. Here are three different runs of the program:

Sample Run 1:
Choose the plan (A, B, or C): A
How many gigs of data did you use? 7
Base Cost: 39.99
Data Cost: 29.97
Invoice total: 69.96

Sample Run 2:
Choose the plan (A, B, or C): B
How many gigs of data did you use? 7
Base Cost: 59.99
Data Cost: 0.00
Invoice total: 59.99

Sample Run 3:
Choose the plan (A, B, or C): C
Base Cost: 69.99
Data Cost: 0.00
Invoice total: 69.99

Please ensure that the output of your program is formatted according to the given sample input and output.

You may assume there are no errors in the input. As previously noted, please do not use features of the language beyond chapter 4, and adhere to the style guide.

When you are satisfied with your program, by the due date of 5pm, Saturday, 22 February, submit the source file on the Blackboard website.