**Decisions**

**Phone Plan**

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.

Design and write a program that calculates one customer's monthly bill. It should prompt the user for the customer's 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 (to be entered to the nearest whole number of gigabytes). It should then display the total invoice amount.

Here are three different runs of the program:

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

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

Choose the plan (A, B, or C): C

Base Cost: 69.99

Data Cost: 0.00

Invoice total: 69.99

The pennies column is column 24.

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