

Homework – Chapter 6 – Calculator:

50. Write a program which allows the user to perform simple tasks on a calculator. A series of functions allows the user to select an operation to perform and then enter operands.

The first function displays a menu, giving the user the choice of typing in any one of the following:

+, -, *, /, or %	representing the usual arithmetic operators
A	representing the average of two numbers
X	representing the maximum of two numbers
M	representing the minimum of two numbers
S	representing the square of a number
Q	indicating the user wants to quit the program

The program reads the user's response into a variable of type char. Using a switch statement or a series of if statements, the program determines what function to call to process the user's request. For example, if the user enters **+**, **another function asks for two integers**. Then it finds the sum of the two integers. If the user enters **X**, a function asks for two integers and finds the larger of the two. If the user enters **S**, a function asks for one value and finds the square of that value. If the user enters **Q**, the program stops.

For each calculation performed, the program (**i.e., the function**) prints the user's original input and the result.