

CSCI-101 Programming 1

Lab 8

INSTRUCTIONS

Log into cs.bridgewater.edu and navigate to your **csci101/labs** directory. Make a directory named **lab8** and change your working directory to **lab8**.

Create a class named **Lab8** and include in the class the following.

Add a method named **add** that has 2 integers as parameters and returns the sum of the two integers that are passed to the method.

Add a method named **subtract** that has 2 integers as parameters and returns a value equal to the first parameter minus by the second parameter.

Add a method named **multiply** that has 2 integers as parameters and returns the product of the two integers that are passed to the method.

Add a method named **divide** that has 2 integers as parameters and returns a floating-point value equal to the first parameter divided by the second parameter.

Add a method named **main** that does the following:

- Create an instance of the Scanner class that can read from the keyboard.
- Print the following menu to the screen:
 1. Add
 2. Subtract
 3. Multiply
 4. Divide

Enter choice:

- Read the choice entered by the user into a variable named **choice**.
 - If the user enters a value that is not between 1 and 4 then print to the screen “Invalid option and terminate the program.
 - Ask the user to enter two integers.
 - Read the values that the user entered into variables named **input1** and **input2**.
 - Uses a **switch** statement to perform the action requested by the user.
 - Within each case, call the corresponding method and print “Result: ” followed by the value returned by the method.
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After you've written the program, compile the program and test it until you are confident that it is correct. If it is not correct, try to debug the code, resave, recompile, and retest.

Once you are confident that the program works properly, use git commands to update your GitHub repository. Confirm your files on GitHub by inspecting the repository on [GitHub.com](https://github.com).