CSCI-101 Programming 1
Lab 9

Instructions: Log into cs.bridgewater.edu and navigate to your **csci101/labs** directory. Make a directory named l**ab9** and change your working directory to **lab9**.

Notes:
- **Inclusively** means "including the endpoints". For example the integers between 1 and 5 (inclusively) means 1, 2, 3, 4, and 5.
- **Exclusively** means "excluding the endpoints". For example the integers between 1 and 5 (exclusively) means 2, 3, and 4.

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Create a class named **Lab9**. In **main** do the following:

1. Print the integers between **1** and **10** (inclusively) to the screen on a single line with <u>spaces </u>between them.

2. Print the integers between **1** and **10** (exclusively) to the screen on a single line with <u>commas</u> between them.

3. Ask the user to enter two integers. Read the values from the keyboard, store the first value in a variable named **lowerBound**, and store the second value in a variable named **upperBound**.

4. Print the integers between the values in **upperBound** and **lowerBound** (inclusively) to the screen on a single line with asterisks (*****) between them.

5. Print the integers between the values in **upperBound** and **lowerBound** (exclusively) to the screen on a single line with tildes (**~**) between them.

6. Compute the <u>sum</u> of the integers between the values in **upperBound** and **lowerBound** (inclusively) and print to the screen "**SUM:** " followed by the computed sum.

7. Print the <u>even integers</u> between the values in **upperBound** and **lowerBound** (inclusively) to the screen on a single line with dashes (**-**) between them.

8. Compute the <u>sum of the even integers</u> between the values in **upperBound** and **lowerBound** (inclusively) and then print to the screen "**SUM of even:** " followed by the computed sum.

9. Print the integers that are <u>divisible by </u>5 and are between the values in **upperBound** and **lowerBound** (inclusively) to the screen on a single line with underscore characters (**_**) between them.

10. Compute the <u>sum of the integers that are divisible by 5 and are </u>between the values in **upperBound** and **lowerBound** (inclusively) and then print to the screen "**SUM divisible by 5:** " followed by the computed sum.

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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.

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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.