

# CSCI-101 Programming 1

## Lab 5

### INSTRUCTIONS

Log into cs.bridgewater.edu.

Change your working directory to your **csci101** directory in your repository.

Create a directory named **lab5** and change your working directory to **lab5**.

Inside the **lab5** directory use **vi** to create a file named **Exam1.java**.

Inside the **Exam1.java** file write a program that satisfies the following:

- Declare a variable named **kb** and initialize it to hold a reference to an instance of the **Scanner** class.
- Ask the user to enter 3 decimal values that represent the times (in seconds) that the 3 fastest runners in the world have run a 100 meter race.
- Read the values that are entered by the user and store them in variables named **time1**, **time2**, and **time3**.
- If any of the 3 values (**time1**, **time2**, and **time3**) are less than or equal to zero, then print to the screen "**Error: Times must be greater than 0**" and terminate the program.
- Declare a variable named **average** that can hold a decimal value and initialize it to 0.
- Compute the mean average of the three times (**time1**, **time2**, and **time3**) and store the result in the variable named **average**.
- Use the **printf** method to print to the screen "**Average time:** " followed by the average time.
- Declare a variable named **fastest** that can hold a decimal value and initialize it to the value in **time1**.
- Compute the fastest of the three times (**time1**, **time2**, and **time3**) and store the result in the variable named **fastest**.
- Use the **printf** method to print to the screen "**Fastest time:** " followed by the fastest time.