**Name**

**Advanced Programming in Java**

**Loop review exercise**

**Lab Exercise 9/17/2024**

Reference: Lesson 11 and 12 in Blue Pelican Java

1. Write a program that reads a set of floating-point values. Ask the users to enter the values then print the:
   1. Average of the values
   2. Smallest of the values
   3. Largest of the values
   4. Range of the values

I will leave it to you to determine the method on how many values to enter.

1. Write a program that reads a word and then prints each character on a separate line.
2. Write a program that reads a word and then prints the word backwards.
3. Write a program that reads in an integer and then prints all of its binary digits (bits). Print the remainder of number (number % 2), then replace the number with number / 2. Keep going until the number is 0. For example, if the user provided the number 13, the output should be 1 0 1 1.
4. Write a program that reads an integer and displays using asterisks, a filled and hollow square placed next to each other. For example if a 5 is entered the program should display.

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**When you have completed these programs, submit your source code.**