Module 5.2 Assignment – Results Document

Java File:

/\* *Edgar Rosales*

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*\* CSD320-j318 Programming with Java (2245-DD)*

*\* Module 5.2 Assignment:*

*\* Write a program that uses a while loop to display the following math operations*

*\* both in the smaller to larger order and then the larger to smaller order*

*\* with the denominator being 3 through 99.*

*\* Ensure your application displays the mathematical results.*

*\* Example:*

*\*    1/3.0 + 1/5.0 + 1/7.0 + ··· + 1/95.0 + 1/97.0 + 1/99.0*

*\*    1/99.0 + 1/97.0 + 1/95.0 + ··· + 1/7.0 + 1/5.0 + 1/3.0*

\*/

*public* *class* Module5\_2 {

*public* *static* void main(String[] args) {

        // *Smaller to larger*

        double sum1 = 0;

        System.*out*.println("Smaller to Larger Order:");

        int denominator = 3;

        while (denominator <= 99) {

            sum1 += 1.0 / denominator;

            System.*out*.print("1/" + denominator + " + ");

            denominator += 2;

        }

        System.*out*.println("\nSum: " + sum1);

        // *Larger to smaller*

        double sum2 = 0;

        System.*out*.println("\nLarger to Smaller Order:");

        denominator = 99;

        while (denominator >= 3) {

            sum2 += 1.0 / denominator;

            System.*out*.print("1/" + denominator + " + ");

            denominator -= 2;

        }

        System.*out*.println("\nSum: " + sum2);

    }

}

Example:

A screenshot of a computer program

Description automatically generated