Program listing:

/\* *Edgar D Rosales*

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*\* CSD-320-J318 Programming with Java (2245-DD)*

*\* Module 6.2 Assignment*

*\* Write a program that uses nested for loops to output the following with the shown display format:*

*\* (display omitted)*

\*/

*public* *class* module\_6 {

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

        // *Define the number of rows*

        int maxRows = 7;

        // *Loop through each line until max rows is hit*

        for (int line = 0; line < maxRows; line++) {

            // *Print spaces for formatting*

            for (int column = 0; column < 3 \* (maxRows - line - 1); column++) {

                System.*out*.print(" ");

            }

            // *Print the left half of the pattern with a space added for single digits*

            for (int column = 0; column <= line; column++) {

                if (Math.pow(2,column) < 10) {

                    System.*out*.print(" ");

                }

                System.*out*.print((int) Math.pow(2, column) + " ");

            }

            // *Print the right half of the pattern with a space added for single digits*

            for (int column = line - 1; column >= 0; column--) {

                if (Math.pow(2,column) < 10) {

                    System.*out*.print(" ");

                }

                System.*out*.print((int) Math.pow(2, column) + " ");

            }

            // *Print spaces after for formatting*

            for (int column = 0; column < 3 \* (maxRows - line - 1); column++) {

                System.*out*.print(" ");

            }

            // *Print @ symbol*

            System.*out*.println("@");

        }

    }

}

GitHub Link:  
<https://github.com/erosales48/csd/blob/master/csd-320/Module-6/module_6.java>

Example 1:

A computer screen shot of a black screen

Description automatically generated