## CSCI-2467 Lab 4 – Loops

## Assignment

Write a program to print a multiplication table. First ask the user for the size of the table. Then print a multiplication table (with a range of 1 to the specified size). For instance, if the user specified a size of 4, the program would print:

Each arithmetic equation should be followed by *two* spaces. To implement the program, you will need to use a loop within a loop (nested loops). You may use either two *for* or two *while* loops.

Use the following code as a starting point for your assignment:

```
import java.util.Scanner;

// TODO Add student name, date, purpose of program

public class Main {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        // TODO add your code here
    }
}
```

As always include a comment with your name, the date, and the purpose of the program.

## Example Output

```
Enter size of multiplication table: 3
1 * 1 = 1   1 * 2 = 2   1 * 3 = 3
2 * 1 = 2   2 * 2 = 4   2 * 3 = 6
3 * 1 = 3   3 * 2 = 6   3 * 3 = 9
Process finished with exit code 0
More Example Output
Enter size of multiplication table: 6
1 * 1 = 1  1 * 2 = 2
                    1 * 3 = 3 1 * 4 = 4 1 * 5 = 5 1 * 6 = 6
2 * 1 = 2 2 * 2 = 4 2 * 3 = 6 2 * 4 = 8 2 * 5 = 10 2 * 6 = 12
3 * 1 = 3 3 * 2 = 6 3 * 3 = 9 3 * 4 = 12
                                           3 * 5 = 15 3 * 6 = 18
                    4 * 3 = 12
                                4 * 4 = 16 4 * 5 = 20 4 * 6 = 24
         4 * 2 = 8
5 * 1 = 5 5 * 2 = 10 5 * 3 = 15 5 * 4 = 20 5 * 5 = 25 5 * 6 = 30
6 * 1 = 6 6 * 2 = 12 6 * 3 = 18 6 * 4 = 24 6 * 5 = 30 6 * 6 = 36
Process finished with exit code 0
```

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