

COSC 1436, Professor Clark

Assignment 5b: 7 points

Write a Program: Multiplication Table Tool

Write a program to create a multiplication table to help your younger sibling. Ask them for how many rows and how many columns they need the table to have, and then print out a nicely lined up table with the results.

Your program should have the following:

- 3 comment lines (description of the program, author, and date).
- Variables to hold the number of rows and columns the user needs for the multiplication table (1 point)
- Ask the user for the number of rows and columns they need and place their responses into your variables. (1 point)
- Print a table of the column numbers and the row numbers (2 points)
- Use nested loops to print all of the values of the row value times the column value (2 points)
- Prettiness point: Display the output in a perfectly lined up formatted table of values (1 point)

Turn in a .txt file to Canvas with your name, section number, all output, and source code.

Example Output:

```
Multiplication Table Tool
```

```
How many rows would you like? 12
```

```
How many columns would you like? 10
```

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----|----|----|----|----|----|----|----|----|-----|-----|
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 2 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 3 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| 4 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| 5 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 6 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| 7 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 |
| 8 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |
| 9 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 11 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 110 |
| 12 | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |