

CSC 501 HOMEWORK 2

PROFESSOR GODFREY MUGANDA

1. HOMEWORK 2A

Write a program that can help grade school children learn their multiplication tables. The program asks the user to enter a number for which to print the multiplication table, and then asks for the number of rows of the multiplication table to print. The program then prints the requested number of rows of the requested multiplication table.

Here is a sample input-output interaction:

```
Enter a number for the multiplication table: 7
How many rows of the multiplication table?: 12
7 X 1 = 7
7 X 2 = 14
7 X 3 = 21
7 X 4 = 28
7 X 5 = 35
7 X 6 = 42
7 X 7 = 49
7 X 8 = 56
7 X 9 = 63
7 X 10 = 70
7 X 11 = 77
7 X 12 = 84
```

2. HOMEWORK 2B

Write a program that is like the one above, except it keeps asking for input (number, rows) and printing multiplication tables until the user enters 0 for either the number or for the number of rows.

Here is a sample input-output interaction:

```
Enter a number for the multiplication table: 15
How many rows of the multiplication table?: 3
15 X 1 = 15
15 X 2 = 30
15 X 3 = 45

Enter a number for the multiplication table: 7
How many rows of the multiplication table?: 5
7 X 1 = 7
7 X 2 = 14
7 X 3 = 21
7 X 4 = 28
```

$$7 \times 5 = 35$$

Enter a number for the multiplication table: 32

How many rows of the multiplication table?: 3

$$32 \times 1 = 32$$

$$32 \times 2 = 64$$

$$32 \times 3 = 96$$

Enter a number for the multiplication table: 0

How many rows of the multiplication table?: 5

This assignment is due Thursday of Week 3.