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/\* Lab 3 Question 8 \*/

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/\* This Program employs a for function \*/

/\* in order to print multiplication table \*/

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#include<stdio.h>

int main()

{

//Declaration

int num, row, col;

//Data/Input

printf("Enter the multiplication table for : ");

scanf("%d", &num);

printf("\n");

//Processing/Calculation

for (row = 0; row <= 12; row++)//For loop statement conducts a loop function up to a max row of 12.

{

printf("%d X %d = %d \n", num, row, (num \* row));//Calculation performed as part of the 'printf' function

}

return 0;

}

//Output

//

//Test Run 1

//

//Enter the multiplication table for : 2

//

//2 X 0 = 0

//2 X 1 = 2

//2 X 2 = 4

//2 X 3 = 6

//2 X 4 = 8

//2 X 5 = 10

//2 X 6 = 12

//2 X 7 = 14

//2 X 8 = 16

//2 X 9 = 18

//2 X 10 = 20

//2 X 11 = 22

//2 X 12 = 24

//

//Test Run 2

//

//Enter the multiplication table for : 5

//

//5 X 0 = 0

//5 X 1 = 5

//5 X 2 = 10

//5 X 3 = 15

//5 X 4 = 20

//5 X 5 = 25

//5 X 6 = 30

//5 X 7 = 35

//5 X 8 = 40

//5 X 9 = 45

//5 X 10 = 50

//5 X 11 = 55

//5 X 12 = 60

//

//Test Run 3

//

//Enter the multiplication table for : 9

//

//9 X 0 = 0

//9 X 1 = 9

//9 X 2 = 18

//9 X 3 = 27

//9 X 4 = 36

//9 X 5 = 45

//9 X 6 = 54

//9 X 7 = 63

//9 X 8 = 72

//9 X 9 = 81

//9 X 10 = 90

//9 X 11 = 99

//9 X 12 = 108