**PHP Basic Tasks**

**31-7-2023**

**Loops**

1. **Create a script using a for loop to add all the integers between 0 and 30 and display the total.** \*\*  Required \*\*

Expected Output: total as a number

1. **Create a script to generate the following pattern, using the nested for loop**. \*\*  Optional \*\*

Expected Output:

A A A A A

A A A B B

A A C C C

A D D D D

E E E E E

1. **Create a script to generate the following pattern, using the nested for loop**. . \*\*  Optional \*\*

Expected Output:

1 1 1 1 1

1 1 1 2 2

1 1 3 3 3

1 4 4 4 4

5 5 5 5 5

1. **Create a script to generate the following pattern, using the nested for loop**. \*\*  Required \*\*

Expected Output:

1 0 0 0 0

0 2 0 0 0

0 0 3 0 0

0 0 0 4 0

0 0 0 0 5

1. **Write a program to calculate and print the factorial of a number using a for loop. The factorial of a number is the product of all integers up to and including that number.** \*\*  Required \*\*

Sample Input: 5

Expected Output: 120

1. **Write a program to calculate and print the Fibonacci sequence using a for loop.**

**Fibonacci is a series of numbers where a number** **is the sum of previous two numbers. Starting with 0 and 1, the sequence goes 0, 1, 1, 2, 3, 5, 8, 13, 21, and so on.**

Expected Output: 0, 1, 1, 2, 3, 5, 8, 13, 21, … \*\*  Required \*\*

1. **Write a PHP script that creates the following table using for loops. Add cellpadding="3px" and cell spacing="0px" to the table tag.**. \*\*  Optional \*\*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 \* 1 = 1 | 1 \* 2 = 2 | 1 \* 3 = 3 | 1 \* 4 = 4 | 1 \* 5 = 5 |
| 2 \* 1 = 2 | 2 \* 2 = 4 | 2 \* 3 = 6 | 2 \* 4 = 8 | 2 \* 5 = 10 |
| 3 \* 1 = 3 | 3 \* 2 = 6 | 3 \* 3 = 9 | 3 \* 4 = 12 | 3 \* 5 = 15 |
| 4 \* 1 = 4 | 4 \* 2 = 8 | 4 \* 3 = 12 | 4 \* 4 = 16 | 4 \* 5 = 20 |
| 5 \* 1 = 5 | 5 \* 2 = 10 | 5 \* 3 = 15 | 5 \* 4 = 20 | 5 \* 5 = 25 |
| 6 \* 1 = 6 | 6 \* 2 = 12 | 6 \* 3 = 18 | 6 \* 4 = 24 | 6 \* 5 = 30 |

1. **Write a PHP program that repeats integers from 1 to 50. For multiples of three, print "Fizz" instead of the number, and for multiples of five print "Buzz". For numbers that are multiples of both three and five, print "FizzBuzz".**. \*\*  Optional \*\*

Expected Output: 1 2 Fizz 4 Buzz Fizz 7 8 Fizz …….

1. **Write a PHP program to generate and display the first n lines of a Floyd triangle** \*\*  Required \*\*

Sample output:

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

1. **Write a PHP program to print the following pattern.**. \*\*  Optional \*\*

Expected Output:

     A

    A B

   A B C

  A B C D

 A B C D E

  A B C D

   A B C

    A B

     A