

Week 2 Practice Questions – Structured Programming Paradigm (Iterative Statements)

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For Loop:

1. Calculate and print the factorial of a given non-negative integer using a for loop.
2. Print the multiplication table of a given number using for loop types
3. Print all even numbers from 1 to a given number using a for loop.
4. Print all odd numbers from 1 to a given number using a for loop.
5. Calculate and print the simple interest for a given principal, rate, and number of years using a for loop.

While Loop

1. Print the multiplication table of a given number using While loop
2. Print the following pattern using nested loops:
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3. Calculate the sum of natural numbers from 1 to a given number using a while loop.
4. Calculate the average of a series of numbers entered by the user using a while loop.
5. Print numbers from 1 to a given number using a while loop.

Do While Loop:

1. Find the sum of even numbers from 1 to a given number using a do-while loop.
2. Print the powers of 2 up to a given exponent using a do-while loop.

3. Print the multiplication table of a given number using do while loop
4. Calculate the factorial of a non-negative number using a do-while loop.
5. Continuously prompt the user to enter a positive number until they provide a valid input.