

Assignment 7 - Static Functions

Objective:

To understand the concept of static functions (methods) in Java, their usage, and their advantages.

Reading Material:

- **Static Methods in Java:**

- A static method belongs to the class rather than instances of the class.
- It can be called without creating an instance of the class.
- Static methods can access static variables and other static methods directly.
- They cannot access instance variables or instance methods directly.

Exercises:

Exercise 1

1. Create a class `MathOperations` with the following static methods:

- `add(int a, int b)` : Returns the sum of two integers.
- `subtract(int a, int b)` : Returns the difference of two integers.
- `multiply(int a, int b)` : Returns the product of two integers.
- `divide(int a, int b)` : Returns the quotient of two integers. Ensure to handle division by zero appropriately.