**WEB X Lab Exp 3**

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AIM: Demonstrate Basic Calculator and Function Overloading using TypeScript.

INPUT:

class Calculator {

    add(a: number, b: number): number {

        return a + b;

    }

    subtract(a: number, b: number): number {

        return a - b;

    }

    multiply(a: number, b: number): number {

        return a \* b;

    }

    divide(a: number, b: number): number {

        return a / b;

    }

}

const calc = new Calculator();

console.log('Addition:', calc.add(5, 3)); // Outputs: 8

console.log('Subtraction:', calc.subtract(5, 3)); // Outputs: 2

console.log('Multiplication:', calc.multiply(5, 3)); // Outputs: 15

console.log('Division:', calc.divide(10, 2)); // Outputs: 5

OUTPUT:

[LOG]: "Addition:", 8

[LOG]: "Subtraction:", 2

[LOG]: "Multiplication:", 15

[LOG]: "Division:", 5

//Function with string type parameter

INPUT:

function add(a:string, b:string): string;

//Function with number type parameter

function add(a:number, b:number): number;

//Function Definition

function add(a: any, b:any): any {

    return a + b;

}

//Result

console.log("Addition: " +add("Hello ", "VS"));

console.log("Addition: "+add(30, 20));

OUTPUT:

[LOG]: "Addition: Hello VS"

[LOG]: "Addition: 50"

Conclusion: Successfully built Basic Calculator and Function Overloading using TypeScript.