



Sheet 1

Objective: upon successful completion of this sheet, students should be able to

- Use output statements,
 - Employ control and loop statements, and
 - Create simple functions.
- (1) Write a TypeScript program that implements a simple calculator. Each of the following operations should be implemented using a function expression: addition, subtraction, multiplication, division, and remainder. Each function should accept at least two operands and at most three as inputs. The program should display the results of all operations.
- (2) Write a TypeScript program that converts a temperature from Celsius to other units. It should provide options to convert the temperature to Fahrenheit, Kelvin, or both. The program should display the converted temperature(s) according to the user choice.
- (3) Write a TypeScript program to find the factors of a given number using an arrow function. Display the factors in a single line separated by a hyphen. Also, display a message indicating the total number of factors.
- (4) Write a TypeScript program to define a function accepts an indefinite number of `User` objects. Each `User` object should contain the following properties: `id` (number), `name` (string), `email` (string), and `isSubscribed` (boolean). The function should return the number of users who are subscribed.