1. Write a program to find whether a given year is a leap year or not.

function isLeapYear(year) {

if ((year % 4 === 0 && year % 100 !== 0) || (year % 400 === 0)) {

console.log(year + " is a Leap Year");

} else {

console.log(year + " is Not a Leap Year");

}

}

// Example:

isLeapYear(2024);

isLeapYear(2023);

2. Write a JavaScript program to convert temperatures to and from Celsius,

Fahrenheit.

[ Formula : c/5 = (f-32)/9 [ where c = temperature in Celsius and f = temperature in

Fahrenheit ]

Expected Output :

60°C is 140 °F

45°F is 7.222222222222222°C

function celsiusToFahrenheit(celsius) {

let fahrenheit = (celsius \* 9 / 5) + 32;

console.log(celsius + "°C is " + fahrenheit + "°F");

}

function fahrenheitToCelsius(fahrenheit) {

let celsius = (fahrenheit - 32) \* 5 / 9;

console.log(fahrenheit + "°F is " + celsius + "°C");

}

// Example:

celsiusToFahrenheit(60);

fahrenheitToCelsius(45);

3. Write a program to find the factorial of a number.

function factorial(n) {

if (n < 0) {

console.log("Factorial is not defined for negative numbers.");

return;

}

let result = 1;

for (let i = 1; i <= n; i++) {

result \*= i;

}

console.log("Factorial of " + n + " is " + result);

}

// Example:

factorial(5);

factorial(0);