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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)) {
  return true;
 } else {
  return false;
const year = 2024;
if (isLeapYear(year)) {
 console.log(year + " is a leap year.");
} else {
 console.log(year + " is not a leap year.");
}
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 1
Expected Output:
60°C is 140 °F
45°F is 7.2222222222222°C
function celsiusToFahrenheit(celsius) {
 // Formula: (celsius * 9/5) + 32
 let fahrenheit = (celsius * 9 / 5) + 32;
 return fahrenheit:
function fahrenheitToCelsius(fahrenheit) {
 // Formula: (fahrenheit - 32) * 5/9
 let celsius = (fahrenheit - 32) * 5 / 9;
 return celsius:
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}
let celsiusTemp = 60;
let fahrenheitTemp = celsiusToFahrenheit(celsiusTemp);
console.log(`${celsiusTemp}°C is ${fahrenheitTemp}°F`);
let fahrenheitTemp2 = 45;
let celsiusTemp2 = fahrenheitToCelsius(fahrenheitTemp2);
console.log(`${fahrenheitTemp2}°F is ${celsiusTemp2}°C`);
3. Write a program to find the factorial of a number.
function factorial(n) {
 if (n < 0) {
  return -1; // Factorial of a negative number is not defined
 ellipsymbol{} else if (n === 0 || n === 1) {
  return 1; // Factorial of 0 or 1 is 1
 } else {
  let result = 1;
  for (let i = n; i > 1; i--) {
    result *= i;
  return result;
const number = 5;
const result = factorial(number);
console.log(`The factorial of ${number} is ${result}`);
```