Assignment 1

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

function checkLeap(year)

{

if(year%400==0)

console.log ("This year is a leap year");

else if(year%100==0)

console.log ("This year is not a leap year");

else if(year%4==0)

console.log ("This year is a leap year");

else

console.log ("This year is not a leap year");

}

checkLeap(2000);

**output: This year is a leap year**

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

function CelsiusToFahrenheit(temp)

{

let celsius = temp;

let celsiusTofahrenheit = temp \* 9 / 5 + 32;

console.log (celsius+'\xB0C is ' + celsiusTofahrenheit + ' \xB0F.');

}

function FahrenheitToCelsius(temp)

{

let fahrenheit = temp;

let fahrenheitToCelsius =(temp - 32) \* 5 / 9;

console.log (fahrenheit+'\xB0F is ' + fahrenheit + '\xB0C.');

}

CelsiusToFahrenheit (60);

FahrenheitToCelsius (45);

**Output: 60°C is 140 °F.**

**45°F is 45°C.**

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

function factorial(val)

{

let ans=1;

if(val==0)

return ans;

for (let i=val;i>=1;i--)

ans=ans\*i;

return ans;

}

let num=5;

let ans=factorial(num);

console.log ('factorial of '+num+" is equals to "+ans);

**output:**

**factorial of 5 is equals to 120**