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JavaScript Assignment 1

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

//Program to find Leap year or not

```
function isLeapYear(year) {
    if (year % 400 ==0 || year%4 && year%100!=0) {
        return (`${year} is a Leap Year`);
    }
    else {
        return (`${year} is not a Leap Year`);
    }
}
```

//function checking

```
let result = isLeapYear(1700);
console.log(result);
```

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

//Program to convert CtoF and FtoC

```
function covertCtoF(celsius) {
    let fahrenheit = celsius * (9 / 5) + 32;
    return (`${celsius}\u00B0C is ${fahrenheit}\u00B0F`);
}


function covertFtoC(fahrenheit) {
    let celsius = (fahrenheit - 32)/9.0 * 5;;
    return (`${fahrenheit}\u00B0F is ${celsius}\u00B0C`);
}
```

//function checking

```
let fahrenheit = covertCtoF(60);
let celsius =covertFtoC(45);
console.log(fahrenheit);
console.log(celsius);
```

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

//Program to find factorial of a number

```
function factorial(number) {
    if (number <0) {
        return (`Factorial of ${number} is not Possible.`);
    }
    else if (number == 0) {
        return (`Factorial of ${number} is 1.`);
    }
    else {
        let fact=1
        for (let i=1; i<=number; i++) {
            fact= fact * i;
        }
        return (`Factorial of ${number} is ${fact}.`);
    }
}
```

//function checking

```
let result = factorial(10);
console.log(result);
```