const simpleInterest = document.querySelector('.simple-interest');

const button = document.querySelector('.button');

//const loading = document.querySelector('.loader');

const results = document.querySelector('.results');

function calculateResults(e) {

// ui elements

const principal = document.querySelector('#principal');

const rate = document.querySelector('#rate');

const time = document.querySelector('#time');

const monthlyPayment = document.querySelector('#payment');

const totalInterest = document.querySelector('#interest');

const totalAmount = document.querySelector('#total');

// formula variables

const p = parseFloat(principal.value);

const r = parseFloat(rate.value);

const t = parseFloat(time.value);

// calculate total interest

const interest = (p\*t\*r/100);

// calculate monthly payment

const payment = ((interest + p) / (t \* 12)).toFixed(2);

// calculate total amount paid

const total = (interest + p).toFixed(2);

if (isFinite(payment)) {

totalInterest.innerHTML = '$' + (interest).toFixed(2);

monthlyPayment.innerHTML = '$' + payment;

totalAmount.innerHTML = '$' + total;

// hide loader

button.classList.remove('loading');

// show results

results.classList.remove('hide');

} else {

// show error

showError('Please check your numbers and try again.');

// hide loader

button.classList.remove('loading');

}

}

function showError(error) {

// create error

const errorMessage = document.createElement('div');

const calculate = document.querySelector('#calculate');

errorMessage.className = 'error';

errorMessage.appendChild(document.createTextNode(error));

simpleInterest.insertBefore(errorMessage, calculate);

// clear error

setTimeout(clearError, 3000);

}

function clearError() {

// remove error

document.querySelector('.error').remove();

}

button.addEventListener('click', (e) => {

console.log('Calculating...');

// show loader

button.classList.add('loading');

// set timeout

setTimeout(calculateResults, 2000);

// prevent page from reloading on submit

e.preventDefault();

});

/\* IMPROVED OLD CODE BELOW \*/

// const button = document.querySelector('button');

// function simpleInterest() {

// console.log('Calculating...');

// //ui elements

// const p = parseFloat(document.querySelector('#principal').value);

// const r = parseFloat(document.querySelector('#rate').value);

// const t = parseFloat(document.querySelector('#time').value);

// const interest = document.querySelector('#interest');

// const payment = document.querySelector('#payment');

// const total = document.querySelector('#total');

// // calculate interest

// interest.innerHTML = '$' + (p\*t\*r/100).toFixed(2);

// // calculate monthly payment

// payment.innerHTML = '$' + (((p\*t\*r/100) + p) / (t \* 12)).toFixed(2);

// // calculate total amount

// total.innerHTML = '$' + ((p\*t\*r/100) + p).toFixed(2);

// if(isFinite(payment)) {

// console.log('go');

// } else {

// console.log('error');

// }

// }

// button.addEventListener('click',simpleInterest);