let display = document.getElementById('display');

let currentInput = '';

let operator = null;

let firstOperand = null;

function appendNumber(number) {

currentInput += number;

display.value = currentInput;

}

function appendOperator(op) {

if (currentInput === '') return;

if (firstOperand !== null) {

calculate();

}

firstOperand = parseFloat(currentInput);

operator = op;

currentInput = '';

}

function appendDecimal() {

if (!currentInput.includes('.')) {

currentInput += '.';

display.value = currentInput;

}

}

function clearDisplay() {

currentInput = '';

operator = null;

firstOperand = null;

display.value = '';

}

function calculate() {

if (operator === null || firstOperand === null || currentInput === '') return;

let secondOperand = parseFloat(currentInput);

let result;

switch (operator) {

case '+':

result = firstOperand + secondOperand;

break;

case '-':

result = firstOperand - secondOperand;

break;

case '\*':

result = firstOperand \* secondOperand;

break;

case '/':

if (secondOperand === 0) {

display.value = 'Error';

return;

}

result = firstOperand / secondOperand;

break;

default:

return;

}

currentInput = String(result);

operator = null;

firstOperand = null;

display.value = currentInput;

}