TASK-5

import React, { useState } from 'react';

import Display from './Display';

import Button from './Button';

const Calculator = () => {

const [currentInput, setCurrentInput] = useState('');

const [previousInput, setPreviousInput] = useState('');

const [operation, setOperation] = useState(null);

const handleClick = (value) => {

// Handle button clicks based on value (number, operator, or special functions)

if (isNaN(value)) {

setOperation(value);

} else if (operation) {

setPreviousInput(currentInput);

setCurrentInput(value.toString());

} else {

setCurrentInput(currentInput + value.toString());

}

};

const handleClear = () => {

setCurrentInput('');

setPreviousInput('');

setOperation(null);

};

const handleEqual = () => {

// Perform calculation based on operation and previous/current input

const prev = parseFloat(previousInput);

const curr = parseFloat(currentInput);

let result;

switch (operation) {

case '+':

result = prev + curr;

break;

case '-':

result = prev - curr;

break;

case '\*':

result = prev \* curr;

break;

case '/':

if (curr === 0) {

result = 'Error'; // Handle division by zero

} else {

result = prev / curr;

}

break;

default:

break;

}

setCurrentInput(result.toString());

setPreviousInput('');

setOperation(null);

};

return (

<div className="calculator">

<Display value={currentInput} />

<div className="buttons">

<Button handleClick={handleClear} value="C" />

<Button handleClick={handleClick} value="/" />

<Button handleClick={handleClick} value="\*" />

<Button handleClick={handleClick} value="7" />

<Button handleClick={handleClick} value="8" />

<Button handleClick={handleClick} value="9" />

<Button handleClick={handleClick} value="+" />

<Button handleClick={handleClick} value="4" />

<Button handleClick={handleClick} value="5" />

<Button handleClick={handleClick} value="6" />

<Button handleClick={handleClick} value="-" />

<Button handleClick={handleClick} value="1" />

<Button handleClick={handleClick} value="2" />

<Button handleClick={handleClick} value="3" />

<Button handleClick={handleEqual} value="=" />

<Button handleClick={handleClick} value="0" />

</div>

</div>

);

};

export default Calculator;