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// This program satisfies requirements for the assignment in Chapter 3
// for a program using the arithmetic operators. The program will
// prompt the user to enter two real numbers. After input, the
// program will compute the sum, difference, product, and quotient of
// the two numbers. Results are to be printed out with precision of
// two decimal places.

// Win32 console application

#include <iostream.h>
#include <stdio.h>
#include <iomanip.h>

void main()
{
    double num1;    // for user input of first number
    double num2;    // for user input of second number
    double sum;     // for computing sum of the numbers
    double diff;    // for computing difference of the numbers
    double prod;    // for computing the product of the numbers
    double quot;    // for computing the quotient of the numbers

    // right justify output, specify fixed number of decimals
    cout << setiosflags(ios::right | ios::fixed) << setprecision(2);

    // accept input of two real numbers
    cout << "Perform arithmetic operations of two real numbers!" << endl << endl;
    cout << "Enter the first real number ... ";
    cin >> num1;
    cout << "Enter the second real number ... ";
    cin >> num2;
    cout << endl;

    // compute the sum, difference, product, and quotient
    sum = num1 + num2;
    diff = num1 - num2;
    prod = num1 * num2;
    quot = num1 / num2;

    // display results on the monitor
    cout << setw(15) << num1 << setw(10) << " + " << setw(15) << num2 << setw(10) << " = ";
    cout << setw(15) << sum << endl;
    cout << setw(15) << num1 << setw(10) << " - " << setw(15) << num2 << setw(10) << " = ";
    cout << setw(15) << diff << endl;
    cout << setw(15) << num1 << setw(10) << " * " << setw(15) << num2 << setw(10) << " = ";
    cout << setw(15) << prod << endl;
    cout << setw(15) << num1 << setw(10) << " / " << setw(15) << num2 << setw(10) << " = ";
    cout << setw(15) << quot << endl << endl;

    cout << "Hit enter to continue ..." << endl;
    getchar();
    return;
}

```