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// Mr. Minich
// CMPSC 101
// Ch. 1 Demo #7
// Feb. 5, 2003
// Purpose - to display how to show trailing zeros in C++

#include <iostream>
using namespace std;

int main()
{
    double num = 0.0;           // user-inputted value

    cout << "Enter a floating-point value: ";
    cin >> num;

    cout.setf(ios::fixed);      // setting all outputted numbers to show in fixed notation. This
                                //      is required so that the precision method can be used to
                                //      to designate the number of decimal places to be displayed
                                //      rather than the total number of digits to be displayed.

    cout.precision(2);          // setting all future output to be displayed as values rounded
                                //      to the nearest hundredth's place (i.e. nearest penny)
                                //      showing trailing zeros if applicable

    cout << "Rounded to the hundredth's place, your number is " << num << endl;

    cout.precision(0);          // setting ALL future output (using cout) to be displayed rounded
                                //      to the nearest whole number

    cout << "Rounded to the nearest whole number, your number is " << num << endl;

    // Note that this technique can be used to show a variable's stored value as
    //      a rounded number. This technique does NOT permanently change a variable's
    //      value to this rounded value.

    cout.precision(15);

    cout << "The original inputted value number is still " << num << endl;

    return 0;
}// end of main
```