**48. Write a program to read in a floating-point number and round it to the nearest integer using the floor and ceil functions**

**PROGRAM:**

#include <iostream>

#include <cmath>

int main() {

double number;

std::cout << "Enter a floating-point number: ";

std::cin >> number;

int rounded\_down = std::floor(number);

int rounded\_up = std::ceil(number);

std::cout << "Original number: " << number << std::endl;

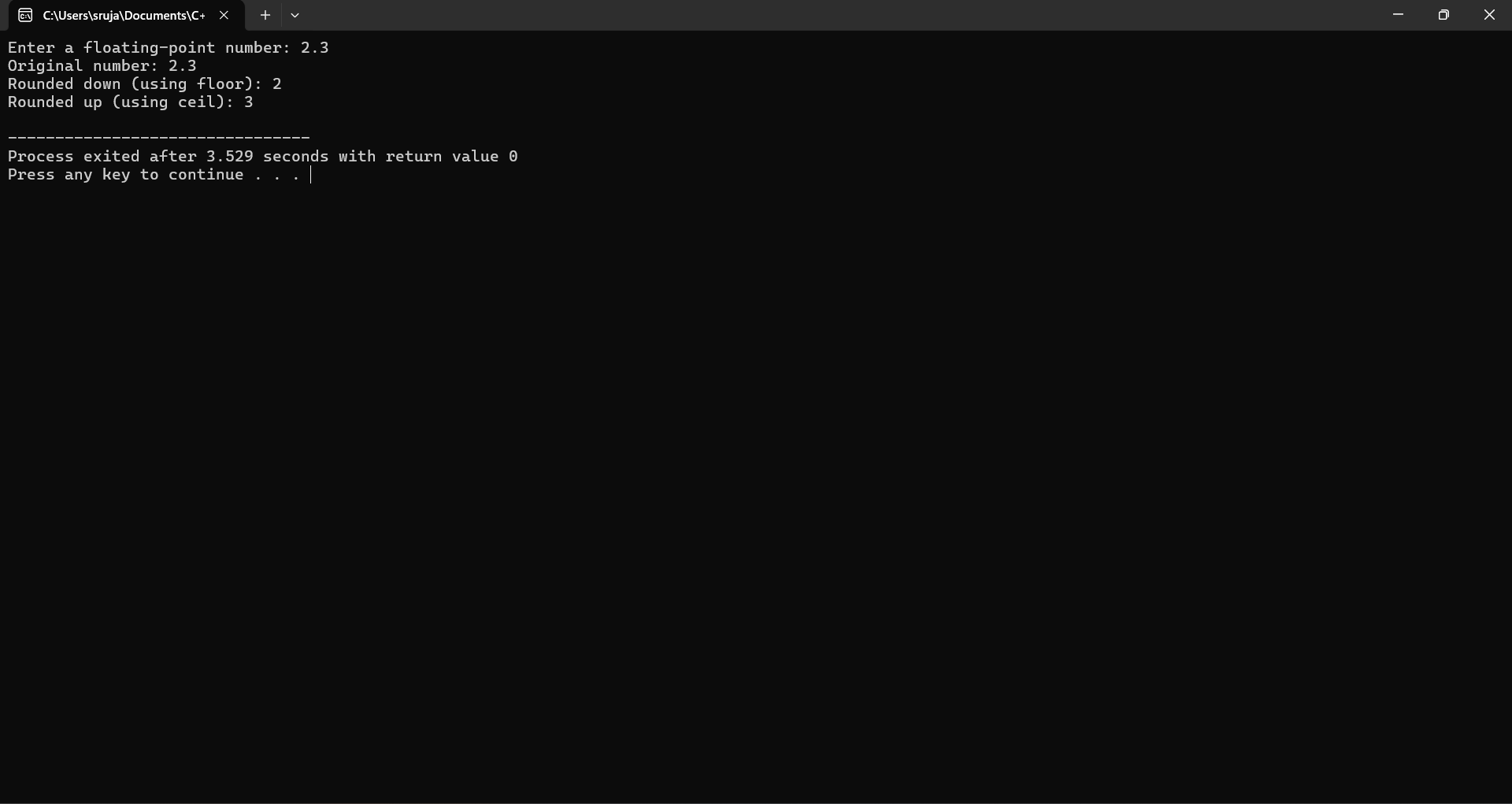
std::cout << "Rounded down (using floor): " << rounded\_down << std::endl;

std::cout << "Rounded up (using ceil): " << rounded\_up << std::endl;

return 0;

}

**OUTPUT:**

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