

Extra Question # 03

Write a C program that gets the values of the variables **a**, **b**, and **c** from the user and if necessary calculates the following arithmetic operation using necessary built-in functions.

$$f(x) = \begin{cases} 0 & \text{if } x \leq 0 \\ \frac{3}{\sqrt{x^3 + 1}} & \text{if } 0 < x \leq 10 \\ |x| + x^5 & \text{if } x > 10 \end{cases}$$

Project Name: EQ2
File Name: EQ2.cpp

Example Run:

Enter 1. x value: 3.7
f(3.7) = 0.417

Enter 2. x value: 10
f(10.0) = 0.095

Enter 3. x value: 0
f(0.0) = 0.000

Enter 4. x value: 11.8
f(11.8) = 228787.597

Enter 5. x value: -9.1
f(-9.1) = 0.000