## Department of Information Systems and Technologies

## CTIS151 – Introduction to Programming

SPRING 2023 - 2024

## 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.

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

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