**( QUESTION: 01 )**

WRITE A PROGRAM TO FIND THE POWER OF A NUMBER IF THE BASE AND EXPONENT IS PROVIDED IN THE MAIN FUCTION. USE PASS BY VALUE MACHANISM TO COMPUTE THE POWER AND RETRUN THE RESULTS BACK TO THE MAIN FUNCTION THAN DISPLAY THE RESULT IN MAIN FUNCTION.

**Solution:**

#include <iostream>

using namespace std;

double Power(double base, int exponent)

{

double result = 1.0;

if (exponent < 0)

{

base = 1.0 / base;

exponent = -exponent;

}

for (int i = 0; i < exponent; i++)

{

result \*= base;

}

return result;

}

int main()

{

double base;

int exponent;

cout << "Enter the base: ";

cin >> base;

cout << "Enter the exponent: ";

cin >> exponent;

double result = Power(base, exponent);

cout << "Result: " << result << std::endl;

return 0;

}

**OUTPUT**

