5.Write a program that input a number in main () and passes the number to a function. The function display the factorial of that number.

Coding:

#include <iostream>

// Function declaration

unsigned long long factorial(int number);

int main() {

int num;

// Input a number from the user

std::cout << "Enter a number: ";

std::cin >> num;

// Ensure the number is non-negative

if (num < 0) {

std::cout << "Factorial is not defined for negative numbers." << std::endl;

} else {

// Call the function to calculate and display the factorial

std::cout << "The factorial of " << num << " is: " << factorial(num) << std::endl;

}

return 0;

}

// Function definition

unsigned long long factorial(int number) {

if (number == 0 || number == 1) {

return 1;

} else {

return number \* factorial(number - 1);

}

}

