11.Write a program that input two integers in main() and passes the integers to a function by reference. The function swap the values. The main() should display the value before and after swapping.

Coding:

#include <iostream>

// Function declaration

void swap(int &a, int &b);

int main() {

int num1, num2;

// Input two integers from the user

std::cout << “Enter the first integer: “;

std::cin >> num1;

std::cout << “Enter the second integer: “;

std::cin >> num2;

// Display values before swapping

std::cout << “Before swapping: “ << std::endl;

std::cout << “First integer: “ << num1 << std::endl;

std::cout << “Second integer: “ << num2 << std::endl;

// Call the function to swap the values

swap(num1, num2);

// Display values after swapping

std::cout << “After swapping: “ << std::endl;

std::cout << “First integer: “ << num1 << std::endl;

std::cout << “Second integer: “ << num2 << std::endl;

return 0;

}

// Function definition

void swap(int &a, int &b) {

int temp = a;

a = b;

b = temp;

}

