4.Write a program that input and display its processor and successor number using function.

Coding:

#include <iostream>

// Function declaration

void displayPredecessorAndSuccessor(int number);

int main() {

int num;

// Input a number from the user

std::cout << “Enter a number: “;

std::cin >> num;

// Call the function to display the predecessor and successor of the number

displayPredecessorAndSuccessor(num);

return 0;

}

// Function definition

void displayPredecessorAndSuccessor(int number) {

int predecessor = number - 1;

int successor = number + 1;

std::cout << “The predecessor of “ << number << “ is: “ << predecessor << std::endl;

std::cout << “The successor of “ << number << “ is: “ << successor << std::endl;

}

