Week 14-15

Q1. Program with function template with single parameter eg. swap ()

#include <iostream>

using namespace std;

template <typename T>

void mySwap(T& a, T& b) { // Renamed swap to mySwap

T temp = a;

a = b;

b = temp;

}

int main() {

int x = 10, y = 20;

cout << "Before swap: x = " << x << ", y = " << y << endl;

mySwap(x, y); // Call mySwap instead of swap

cout << "After swap: x = " << x << ", y = " << y << endl;

double p = 3.14, q = 2.71;

cout << "\nBefore swap: p = " << p << ", q = " << q << endl;

mySwap(p, q); // Call mySwap instead of swap

cout << "After swap: p = " << p << ", q = " << q << endl;

return 0;

}