Program:

#include <iostream>

using namespace std;

template <typename T>

void swapValues(T &a, T &b) {

    T temp = a;

    a = b;

    b = temp;

}

template <typename U, typename V>

class Pair {

public:

    U first;

    V second;

    Pair(U f, V s) : first(f), second(s) {}

    void display() {

        cout << "(" << first << ", " << second << ")" << endl;

    }

};

int main() {

    int num1 = 5, num2 = 10;

    cout << "Before swap: " << num1 << ", " << num2 << endl;

    swapValues(num1, num2);

    cout << "After swap: " << num1 << ", " << num2 << endl;

    Pair<string, double> student("John", 75.5);

    Pair<int, char> coordinates(3, 'A');

    cout << "Student: ";

    student.display();

    cout << "Coordinates: ";

    coordinates.display();

    return 0;

}

---------------------------------------------------------------------------------------------------------------------------

Output :

