**Assignment 2**

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**Program:**

#include <iostream>

using namespace std;

int main() {

int total\_students = 200;

int sports\_club = 120;

int music\_club = 90;

int both\_clubs = 50;

int at\_least\_one = sports\_club + music\_club - both\_clubs; // 1. Total number of students in at least one club

int only\_sports = sports\_club - both\_clubs; // 2. Number of students only in Sports Club

int only\_music = music\_club - both\_clubs; // 3. Number of students only in Music Club

int neither = total\_students - at\_least\_one; // 4. Number of students in neither club

cout << "Total students in at least one club: " << at\_least\_one << endl;

cout << "Students only in Sports Club: " << only\_sports << endl;

cout << "Students only in Music Club: " << only\_music << endl;

cout << "Students in neither club: " << neither << endl;

return 0;

}

**OUTPUT:**

