1. **Problem statement:**

To calculate points, goal difference, goals based on given match scores among four teams and then display the rank of these teams.

1. **Analysis:**

Inputs: none

Outputs: the rank of four teams

Additional requirements: none

1. **Design:**
2. declare four two-dimension arrays which contains the scores of each team
3. declare twelve int variables which represent the points, goal difference and goals of each team.
4. use for loop to calculate the points ,goal difference and goals of each team
5. display the points, goal difference and goals of each team
6. declare four arrays which respectively contain name, points ,goal difference and goals of each team
7. use two for loops to conduct bubble sort
8. if the former number is smaller than the latter, exchange them with their other information
9. if points are equal, check the goal difference
10. if goal difference are equal, check the goals
11. display the rank of four teams

**4. Implementation**: see C++ code in file 1405347\_1-3.cpp with comments.

**5. Testing:**

The C program was tested by carrying out a set of experiments and the C program output was verified successfully. For example

