Step 1: Problem Analysis Chart

|  |  |
| --- | --- |
| Section 1: Given Data | Section 2: Required Results |
| class  TEAMSOFFOUR | numOfTeams  leftovers |
| Section 3: Required Processing | Section 4: Solution Alternatives |
| numOfTeams=class/TEAMSOFFOUR  leftovers=remainders of (class/TEAMSOFFOUR | Store the value of class as a variable  Store the value of TEAMSOFFOUR as a constant of 4 |

Step 2: Interactivity Chart

Step 3: Input, Processing, Output Chart (IPO Chart)

|  |  |  |  |
| --- | --- | --- | --- |
| Input | Processing | Module Reference | Output |
| TEAMSOFFOUR=numeric and constant  class=numeric | 1. Initialise the constant of TEAMSOFFOUR  2. Enter the value of class  3.Calculate the numOfTeams and leftovers  4. Print the numOfTeams and leftovers  5. End | Initialise  Read  Calculate  Print  ClassTeamsMain | numOfTeams=numeric  leftovers=numeric |

Steps 4 & 5: Algorithms & Flowcharts

|  |  |
| --- | --- |
| Algorithm | Flowchart |
| StudentUnion Main  Initialise  Read  Calculate  Print  End |  |

[**https://www.draw.io/**](https://www.draw.io/)