**Requirement Analysis**

**Input:**

1. What is your ()?
   * Name
   * Homeroom number
   * Homeroom teacher
   * Email
   * Phone number
   * Average from last year
   * Grade
2. What club would you like to join?
3. What days are you available?
4. Would you like to apply for another club?

**Output:**

1. Days the club takes place on
2. Time of the club
3. People who run the club
4. Where the club takes place
5. Special events for the club
6. Materials needed for the club
7. Average needed for the club
8. A spot has been reserved for you in your chosen club
9. The number of spaces left is x
10. You aren’t eligible for this club
11. The leader of the club’s room number
12. Goodbye, have a nice day!

The program would first ask “What club would you like to join?” (Input – 2) With a list of options in the ‘Interpreter Window’;

* Robotics Club
* Student Council
* Student Government
* D.E.C.A
* Soccer Team
* Volleyball Team
* Basketball Team
* Swimming Team
* Newspaper Club
* Music Club

After the club is chosen, it would output the club’s basic information, including any specifics needed to join (Output – 1-7).

Then the program would ask for the user’s information (Input – 1). Based on the information given, the program would say if the user is eligible or not. The student may not be eligible if;

* Their average is too low
* There aren’t opportunities for people in their grade
* They aren’t available on the days the club runs

If the user is eligible it would output, they have been reserved a spot and the amount of spots left (Output – 8-9). If the user is not, they will be given the room number of the person who runs the club to go work something out (Output – 10-11).

Last, the program will ask if they want to apply for another club (Input - 4). If yes,

* Program will loop asking for wanted club
* Personal information will be stored so user doesn’t have to re-input
  + What club would you like to join? (Input – 2)
  + Club information (Output – 1-7)
  + Already has the user’s information
  + Decides eligible (Output – 8-9) or not (Output – 10-11)
  + Apply for another club (Input – 4)

If no, the program will say goodbye (Output – 12), and close.

Great work! This is going to be a challenging program for you to write, but if you use your time wisely and put your mind to it, you can do it! It sounds like it will be very useful! 10/10