1. START
2. Create a list to store the roll no of students playing cricket
3. Create another list to store the roll no of students playing badminton
4. Create a list to store the roll no of students playing football
5. Take the number of students playing cricket as input
6. Store it in variable say a
7. Take the number of students playing badminton as input
8. Store it in variable say b
9. Take the number of students playing football as input
10. Store it in variable say c
11. Define a function to append the roll number of students playing cricket taken as input from user
    * 1. Use for loop to append the roll number of students playing cricket taken as input from user in range 0 to a
      2. Take input roll number in a variable
      3. Append it to the created list
      4. Return the list
12. Define a function to append the roll number of students playing badminton taken as input from user
    * 1. Use for loop to append the roll number of students playing badminton taken as input from user in range 0 to c
      2. Take input roll number in a variable
      3. Append it to the created list
      4. Return the list
13. Define a function to append the roll number of students playing football taken as input from user
    * 1. Use for loop to append the roll number of students playing football taken as input from user in range 0 to c
      2. Take input roll number in a variable
      3. Append it to the created list
      4. Return the list
14. Define a function to delete the duplicate elements in the list with a parameter say d
    * 1. Create a list
      2. Use for loop till element I in parameter d
         + 1. Use condition statement if with the condition that the element is not in the list created in this function
           2. If the condition is true append that element in the list created in this function
      3. Return the list
15. Create a list to store the roll numbers of students playing both cricket and badminton
16. Define a function to append the roll numbers of students playing both cricket and badminton
    * 1. Use for loop in range 0 to a+b
         + 1. Use condition statement if with a condition that the element i is in the list of students playing cricket and in the list of students playing badminton
      2. Return the list
17. Call the function created to append the roll number of students playing cricket taken as input from user
18. Call the function created to append the roll number of students playing badminton taken as input from user
19. Call the function created to append the roll number of students playing football taken as input from user
20. Call the function created to append the roll numbers of students playing both cricket and badminton.
21. Give the list of roll number of students playing cricket as parameter to function created to eliminate duplicate elements.
22. Print the list as roll number of students playing cricket.
23. Give the list of roll number of students playing badminton as parameter to function created to eliminate duplicate elements.
24. Print the list as roll number of students playing badminton.
25. Give the list of roll number of students playing football as parameter to function created to eliminate duplicate elements.
26. Print the list as roll number of students playing football.
27. Give the list of roll number of students playing both cricket and badminton as parameter to function created to eliminate duplicate elements.
28. Print the list as roll number of students playing both cricket and badminton.
29. Create a list to store the roll number of students who play either cricket or badminton but not both.
30. Define a function to append the roll number of students who play either cricket or badminton but not both.
    1. Use for loop in range 0 to a+b
       1. Use condition statement if with a condition that the element i is in the list of students playing cricket or in the list of students playing badminton
       2. If the statement is true append the element in the list
       3. Use condition statement if with a condition that the element i is in the list of students who play either cricket or badminton but not both and in the list of students playing cricket and badminton.
       4. If the condition is true remove that element.
    2. Return the list.
31. Call the function created to append the roll number of students who play either cricket or badminton but not both.
32. Give the list of roll number of students playing either cricket or badminton but not both as parameter to function created to eliminate duplicate elements.
33. Print the list as roll number of students playing either cricket or badminton but not both.
34. Create a list to store the roll no of students play neither cricket nor badminton.
35. Define a function to append the roll no of students play neither cricket nor badminton.
    1. Use a for loop in range 0 to a+b+c
       1. Use condition statement if with a condition that the element i is in the list of students playing football and not in list of students playing cricket and not in list of students playing badminton.
       2. If the condition is true append that element in the list
    2. Return the list
36. Call the function created to append the roll number of students who play either cricket or badminton but not both.
37. Give the list of roll number of students play neither cricket nor badminton as parameter to function created to eliminate duplicate elements.
38. Print the length of the list as number of students playing neither cricket nor badminton using len() function.
39. Create a list which stores the elements of all groups as union using concatenation operator
40. Define a function to store the roll no of students playing cricket and football but not badminton.
    1. Use a for loop in range 0 to a+b+c
       1. Use condition statement if with a condition that the element i is in the union list and in the list of students playing badminton.
       2. If the condition is true remove that element from the union list.
    2. Return the union list.
41. Call the function created to store the roll no of students playing cricket and football but not badminton.
42. Give the list of roll number of students playing cricket and football but not badminton as parameter to function created to eliminate duplicate elements.
43. Print the length of the list as number of students playing cricket and football but not badminton using len() function.
44. STOP