1. **Addelem Function:**
   * Takes a list **A** and an integer **a** as input.
   * Reads names of students (**elem**) **a** times and appends them to the list **A**.
   * Checks for duplicate entries and prompts the user until a unique entry is provided.
2. **union Function:**
   * Takes two lists **A** and **C**, and their respective lengths **a** and **c**.
   * Extends the list **AUC** with the elements of list **A**.
   * Appends elements from list **C** to **AUC** only if they are not already present in list **A**.
3. **Input and Initialization for Cricket, Badminton, and Football Sets:**
   * Reads the number of students playing Cricket (**a**), Badminton (**b**), and Football (**c**).
   * Calls the **Addelem** function for each set, creating sets **A**, **B**, and **C**.
4. **Construction of Universal Set (U):**
   * Initializes an empty list **U**.
   * Appends elements from sets **A**, **B**, and **C** to form the universal set **U**.
5. **Display Information about Sets:**
   * Prints information about the students playing Cricket, Badminton, and Football.
   * Prints the Universal Set (**U**).
6. **Que 1: Students Playing Both Cricket and Badminton (D):**
   * Initializes an empty list **D**.
   * Appends elements from set **A** to **D** if they are also present in set **B**.
   * Prints the list of students playing both Cricket and Badminton.
7. **Que 2: Students Playing Either Cricket or Badminton But Not Both (E):**
   * Initializes an empty list **E**.
   * Appends elements from set **A** to **E** if they are not in the intersection of sets **A** and **B**.
   * Appends elements from set **B** to **E** if they are not in the intersection of sets **A** and **B**.
   * Prints the list of students playing either Cricket or Badminton but not both.
8. **Que 3: Students Playing Neither Cricket nor Badminton (F):**
   * Initializes an empty list **F**.
   * Calls the **union** function to create the union set **AUB** of sets **A** and **B**.
   * Appends elements from the Universal Set **U** to **F** if they are not in the union set **AUB**.
   * Prints the number and list of students playing neither Cricket nor Badminton.
9. **Que 4: Students Playing Cricket and Football But Not Badminton (G):**
   * Initializes an empty list **AUC** and calls the **union** function to create the union set of sets **A** and **C**.
   * Initializes an empty list **G**.
   * Appends elements from the union set **AUC** to **G** if they are not in set **B**.
   * Prints the number and list of students playing Cricket and Football but not Badminton.

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