Programe:-

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#include <iostream>
#include <string>

using namespace std;

class ClubMember {
public:
    int prn;
    string name;
    ClubMember* next;

    ClubMember(int prn, const string& name) {
        this->prn = prn;
        this->name = name;
        this->next = NULL;
    }
};

class Club {
public:
    ClubMember* firstMember;
    int totalMembers;

    Club() {
        firstMember = NULL;
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        totalMembers = 0;
    }

    void addMember(int prn, const string& name) {
        ClubMember* newMember = new ClubMember(prn,
name);
        if (firstMember == NULL) {
            firstMember = newMember;
        } else {
            ClubMember* current = firstMember;
            while (current->next != NULL) {
                current = current->next;
            }
            current->next = newMember;
        }
        totalMembers++;
    }

    void deleteMember(int prn) {
        if (firstMember == NULL) {
            cout << "Club is empty." << endl;
            return;
        }

        if (firstMember->prn == prn) {
            ClubMember* temp = firstMember;
            firstMember = firstMember->next;
            delete temp;
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            totalMembers--;
            return;
        }

        ClubMember* current = firstMember;
        while (current->next != NULL && current->next->prn != prn) {
            current = current->next;
        }

        if (current->next == NULL) {
            cout << "Member not found." << endl;
            return;
        }

        ClubMember* temp = current->next;
        current->next = temp->next;
        delete temp;
        totalMembers--;
    }

    int getTotalMembers() {
        return totalMembers;
    }

    void displayMembers() {
        ClubMember* current = firstMember;
        cout << "Club Members:" << endl;
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        while (current != NULL) {
            cout << "PRN: " << current->prn << "
Name: " << current->name << endl;
            current = current->next;
        }
    }
};

int main() {
    Club club;
    int choice;

    while (true) {
        cout << "Enter Choice (1: Add Member, 2:
Total Members, 3: Display Members, 4: Delete Member,
5: Quit): ";
        cin >> choice;

        if (choice == 1) {
            int prn;
            string name;
            cout << "Enter PRN and Name of Member: ";
            cin >> prn >> name;
            club.addMember(prn, name);
        } else if (choice == 2) {
            cout << "Total Members: " <<
club.getTotalMembers() << endl;
        } else if (choice == 3) {
            club.displayMembers();
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        } else if (choice == 4) {
            int prn;
            cout << "Enter PRN of Member to Delete:
";
            cin >> prn;
            club.deleteMember(prn);
        } else if (choice == 5) {
            break;
        } else {
            cout << "Invalid choice!" << endl;
        }
    }

    return 0;
}
```

Output:-

Enter Choice (1: Add Member, 2: Total Members, 3: Display Members, 4: Delete Member, 5: Quit): 1

Enter PRN and Name of Member: 123445 Amar

Enter Choice (1: Add Member, 2: Total Members, 3: Display Members, 4: Delete Member, 5: Quit): 1

Enter PRN and Name of Member: 68758 Akbar

Enter Choice (1: Add Member, 2: Total Members, 3: Display Members, 4: Delete Member, 5: Quit): 1

Enter PRN and Name of Member: 37849 Anthony

Enter Choice (1: Add Member, 2: Total Members, 3: Display Members, 4: Delete Member, 5: Quit): 2

Total Members: 3

Enter Choice (1: Add Member, 2: Total Members, 3: Display Members, 4: Delete Member, 5: Quit): 3

Club Members:

PRN: 123445 Name: Amar

PRN: 68758 Name: Akbar

PRN: 37849 Name: Anthony

Enter Choice (1: Add Member, 2: Total Members, 3: Display Members, 4: Delete Member, 5: Quit): 4

Enter PRN of Member to Delete: 68758

Enter Choice (1: Add Member, 2: Total Members, 3: Display Members, 4: Delete Member, 5: Quit): 3

Club Members:

PRN: 123445 Name: Amar

PRN: 37849 Name: Anthony

Enter Choice (1: Add Member, 2: Total Members, 3: Display Members, 4: Delete Member, 5: Quit):