PROGRAM :

```
#include <stdio.h>
#include <string.h>

#define MAX 100

struct Parking {
    char vehicleNo[20];
    char ownerName[30];
};

struct Parking parked[MAX];
int count = 0;

void parkVehicle() {
    if (count >= MAX) {
        printf("\nParking is Full!\n");
        return;
    }
    printf("Enter Vehicle Number: ");
    scanf("%s", parked[count].vehicleNo);

    printf("Enter Owner Name: ");
    scanf("%s", parked[count].ownerName);
```

```
    count++;

    printf("Vehicle Parked Successfully!\n");
}

void removeVehicle() {
    if (count == 0) {
        printf("\nNo Vehicles to Remove!\n");
        return;
    }

    char vehicle[20];
    printf("Enter Vehicle Number to Remove: ");
    scanf("%s", vehicle);

    int found = 0;
    for (int i = 0; i < count; i++) {
        if (strcmp(parked[i].vehicleNo, vehicle) == 0) {
            for (int j = i; j < count - 1; j++) {
                parked[j] = parked[j + 1];
            }
            count--;
            found = 1;
            printf("Vehicle Removed Successfully!\n");
            break;
        }
    }
```

```
    if (!found) {
        printf("Vehicle Not Found!\n");
    }
}

void viewVehicles() {
    if (count == 0) {
        printf("\nNo Vehicles Parked!\n");
        return;
    }
    printf("\nParked Vehicles:\n");
    for (int i = 0; i < count; i++) {
        printf("%d. Vehicle No: %s | Owner: %s\n", i + 1,
parked[i].vehicleNo, parked[i].ownerName);
    }
}

void countVehicles() {
    printf("\nTotal Vehicles Parked: %d\n", count);
}

int main() {
    int choice;

    while (1) {
        printf("\n===== Parking Management System
=====\n");
```

```
        printf("1. Park Vehicle\n");
        printf("2. Remove Vehicle\n");
        printf("3. View Parked Vehicles\n");
        printf("4. Count Total Vehicles\n");
        printf("5. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);

        switch (choice) {
            case 1:
                parkVehicle();
                break;
    }

    return 0;
}
```

OUTPUT:

```
===== Parking Management System =====
1. Park Vehicle
2. Remove Vehicle
3. View Parked Vehicles
4. Count Total Vehicles
5. Exit
Enter your choice: 1
Enter Vehicle Number: Ap36cd6666
```

Enter Owner Name: srinu
Vehicle Parked Successfully!

===== Parking Management System =====
1. Park Vehicle
2. Remove Vehicle
3. View Parked Vehicles
4. Count Total Vehicles
5. Exit
Enter your choice: 1
Enter Vehicle Number: Ap34ct1111
Enter Owner Name: siddu
Vehicle Parked Successfully!

===== Parking Management System =====
1. Park Vehicle
2. Remove Vehicle
3. View Parked Vehicles
4. Count Total Vehicles
5. Exit
Enter your choice: 2
Enter Vehicle Number to Remove: Ap36cd6666
Vehicle Removed Successfully!

===== Parking Management System =====
1. Park Vehicle
2. Remove Vehicle

3. View Parked Vehicles
4. Count Total Vehicles
5. Exit
Enter your choice: 3

Parked Vehicles:
1. Vehicle No: Ap34ct1111 | Owner: siddu

===== Parking Management System =====
1. Park Vehicle
2. Remove Vehicle
3. View Parked Vehicles
4. Count Total Vehicles
5. Exit
Enter your choice: 4

Total Vehicles Parked: 1

===== Parking Management System =====
1. Park Vehicle
2. Remove Vehicle
3. View Parked Vehicles
4. Count Total Vehicles
5. Exit
Enter your choice: 5
Thank you! Exiting…