

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...

