DSA mini project: Parking Management

output:

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===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
0. Exit
Enter choice: 1
Enter vehicle number (e.g., MH12AB1234): JK15KS7097
Enter vehicle type (car/bike/bus): BUS
Enter preferred floor (0-1): 0
[DEBUG] Data saved successfully to parking_data.txt
Vehicle JK15KS7097 parked at Floor 0, Slot 3

===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
0. Exit
Enter choice: 1
Enter vehicle number (e.g., MH12AB1234): HR24JH9722
Enter vehicle type (car/bike/bus): CAR
Enter preferred floor (0-1): 1
[DEBUG] Data saved successfully to parking_data.txt
Vehicle HR24JH9722 parked at Floor 1, Slot 1

===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
0. Exit
Enter choice: 1
Enter vehicle number (e.g., MH12AB1234): TN09WS8763
Enter vehicle type (car/bike/bus): CAR
Enter preferred floor (0-1): 1
[DEBUG] Data saved successfully to parking_data.txt
Vehicle TN09WS8763 parked at Floor 1, Slot 2

===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
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===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
0. Exit
Enter choice: 3

===== Parking Lot Status =====
TN21JS9843 -> Floor 1, Slot 3 (BIKE)
MH08JK3426 -> Floor 0, Slot 1 (CAR)
HR24JH9722 -> Floor 1, Slot 1 (CAR)
JK15KS7097 -> Floor 0, Slot 3 (BUS)
MH06KK7821 -> Floor 0, Slot 2 (BIKE)
TN09WS8763 -> Floor 1, Slot 2 (CAR)

Total Earnings: ₹0.00

Waiting Queue: GA12LO7628

Single-lane Order: TN21JS9843 TN09WS8763 HR24JH9722 JK15KS7097 MH06KK7821 MH08JK3426

Floor-wise Slots:
Floor 0: [1:X] [2:X] [3:X]
Floor 1: [1:X] [2:X] [3:X]

===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
0. Exit
Enter choice:
4
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===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
0. Exit
Enter choice: 1
Enter vehicle number (e.g., MH12AB1234): TN21JS9843
Enter vehicle type (car/bike/bus): BIKE
Enter preferred floor (0-1): 1
[DEBUG] Data saved successfully to parking_data.txt
Vehicle TN21JS9843 parked at Floor 1, Slot 3

===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
0. Exit
Enter choice: 1
Enter vehicle number (e.g., MH12AB1234): GA12LO7628
Enter vehicle type (car/bike/bus): BIKE
Enter preferred floor (0-1): 1
Preferred floor 1 is full. Added to waiting queue.

===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
0. Exit
Enter choice: 3

===== Parking Lot Status =====
TN21JS9843 -> Floor 1, Slot 3 (BIKE)
MH08JK3426 -> Floor 0, Slot 1 (CAR)
HR24JH9722 -> Floor 1, Slot 1 (CAR)
JK15KS7097 -> Floor 0, Slot 3 (BUS)
MH06KK7821 -> Floor 0, Slot 2 (BIKE)
TN09WS8763 -> Floor 1, Slot 2 (CAR)

Total Earnings: ₹0.00

Waiting Queue: GA12LO7628
```

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===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
0. Exit
Enter choice: 0
Exiting...
[tani@Tanishqs-MacBook-Air clg % rm a.out mini
rm: a.out: No such file or directory
[tani@Tanishqs-MacBook-Air clg % g++ mini.cpp -o mini
[tani@Tanishqs-MacBook-Air clg % ./mini
Enter number of floors: 2
Enter number of slots per floor: 3
[INFO] No previous data found. Creating new file.

===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
0. Exit
Enter choice: 1
Enter vehicle number (e.g., MH12AB1234): MH08JK3426
Enter vehicle type (car/bike/bus): CAR
Enter preferred floor (0-1): 0
[DEBUG] Data saved successfully to parking_data.txt
Vehicle MH08JK3426 parked at Floor 0, Slot 1

===== Parking Management Menu =====
1. Park Vehicle
2. Remove Vehicle
3. Show Status
4. Show Floor Connections
0. Exit
Enter choice: 1
Enter vehicle number (e.g., MH12AB1234): MH06KK7821
Enter vehicle type (car/bike/bus): BIKE
Enter preferred floor (0-1): 0
[DEBUG] Data saved successfully to parking_data.txt
Vehicle MH06KK7821 parked at Floor 0, Slot 2

===== Parking Management Menu =====
1. Park Vehicle
```