

# Micro project

Subject : PCI

**Title :** *Ola Ride Management System in C*

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Batch: X

Roll: 14

Program :

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

// Structure to represent a ride
struct Ride {
    char carNo[15];
    char carModel[20];
    float fare;
};

// Function to generate a random car number and model
void generateRandomCar(struct Ride *ride) {
    char carNos[][15] = {"DL1234", "MH5678", "KA9012", "TN3456",
"UP7890"};
    char carModels[][20] = {"Maruti Suzuki", "Tata", "Mahindra",
"Hyundai", "Honda"};

    int randomCarNo = rand() % (sizeof(carNos) / sizeof(carNos[0]));
    int randomModel = rand() % (sizeof(carModels) /
sizeof(carModels[0]));

    strcpy(ride->carNo, carNos[randomCarNo]);
    strcpy(ride->carModel, carModels[randomModel]);
    // Generate random fare between 200 and 1000 (Indian Rupees)
```

```

    ride->fare = 200 + (rand() % 801);
}

// Function to display ride details
void displayRideDetails(struct Ride *ride) {
    printf("\nRide Details:\n");
    printf("Car Number: %s\n", ride->carNo);
    printf("Car Model: %s\n", ride->carModel);
    printf("Fare: ₹%.2f\n", ride->fare);
}

// Function to handle payment options
void handlePayment(struct Ride *ride) {
    int paymentOption;

    printf("\nPayment Options:\n");
    printf("1. Cash\n");
    printf("2. QR Payment\n");
    printf("Select Payment Option (1/2): ");
    scanf("%d", &paymentOption);

    switch (paymentOption) {
        case 1:
            printf("Payment completed in cash.\n");
            break;
        case 2:
            printf("QR Payment completed.\n");
            break;
        default:
            printf("Invalid payment option.\n");
    }
}

// Function to handle ride cancellation
void cancelRide() {
    printf("\nRide canceled.\n");
    // Additional cancellation logic can be added here
}

// Main function
int main() {
    srand(time(0)); // Seed for random number generation

```

```

struct Ride ride;
generateRandomCar(&ride);

printf("Welcome to Ola Ride System!\n");

// Get destination from the user (you can expand this based on your
needs)
char destination[50];
printf("Enter destination: ");
scanf("%s", destination);

printf("Finding a suitable car for you...\n");
displayRideDetails(&ride);

// Handle payment options
handlePayment(&ride);

// Ask for customer reviews (you can expand this based on your needs)
char review[100];
printf("Please provide your review (if any): ");
scanf(" %[^\n]", review);
printf("Thank you for your feedback!\n");

// Offer ride cancellation option
char cancelOption;
printf("Do you want to cancel the ride? (y/n): ");
scanf(" %c", &cancelOption);

if (cancelOption == 'y' || cancelOption == 'Y') {
    cancelRide();
}

printf("Have a safe journey!\n");

return 0;
}

```

## Output:

```
Welcome to Ola Ride System!
Enter destination: kurla
Finding a suitable car for you...

Ride Details:
Car Number: MH5678
Car Model: Tata
Fare: ₹606.00

Payment Options:
1. Cash
2. QR Payment
Select Payment Option (1/2): 2
QR Payment completed.
Please provide your review (if any): okay
Thank you for your feedback!
Do you want to cancel the ride? (y/n): n
Have a safe journey!
```

```
Welcome to Ola Ride System!
Enter destination: Thane
Finding a suitable car for you...

Ride Details:
Car Number: TN3456
Car Model: Tata
Fare: ₹419.00

Payment Options:
1. Cash
2. QR Payment
Select Payment Option (1/2): 2
QR Payment completed.
Please provide your review (if any): Nice
Thank you for your feedback!
Do you want to cancel the ride? (y/n): y

Ride canceled.
Have a safe journey!
```

```
Welcome to Ola Ride System!
Enter destination: Mumbra
Finding a suitable car for you...

Ride Details:
Car Number: MH5678
Car Model: Tata
Fare: ₹485.00

Payment Options:
1. Cash
2. QR Payment
Select Payment Option (1/2): 1
Payment completed in cash.
Please provide your review (if any): best
Thank you for your feedback!
Do you want to cancel the ride? (y/n): y

Ride canceled.
Have a safe journey!
```

