

### Assignment:

- Create a new **EmployeeManagement** console app. Create an Employee Class and add below properties. Use a static constructor to initialize the values.

Property Name	Data Type
Id, private set	String, autogenerated Emp1000, Emp1001 etc
Name	string
Salary	double
EmployeeType	String (Permanent, Contract)

- Create the below objects

Id	Name	Salary	EmployeeType
Emp1000	John Doe	15000	Permanent
Emp1001	Liam Smith	20000	Contract
Emp1002	Mary James	15000	Permanent

- Create a static method that returns the number employees
- Create a static method that returns the next available Employee Id.
- Create a non- static method to display the employee details.

Design a class called Ride for an Uber-like system.

### Static Members

- A static variable totalRides — counts how many rides have been booked in total.
- A static variable totalEarnings — holds total earnings from all rides.
- A static variable baseFare — default fare applied to every ride (e.g., ₹50).
- A static variable surgeMultiplier — used to increase fares during peak hours (default 1.0).

### Static Constructor

- Print "Uber System Initialized. Ready to book rides..."

### Instance Members

- Fields for RideId, DriverName, PassengerName, DistanceKm, and Fare.

**The constructor should:**

- Auto-increment RideId(format : Ride\_1000) using totalRides.
- Calculate fare using a static fare calculation method.
- Update the total earnings.

## **Methods**

Static Method:

SetSurgeMultiplier(double multiplier) → updates surge pricing for all rides.

Static Method:

ShowRideSummary() → displays total rides and total earnings.

Instance Method:

ShowRideDetails() → displays ride ID, driver, passenger, distance, and fare.

## **Formula for fare:**

$$\text{Fare} = \text{baseFare} + (\text{distanceKm} * 15 * \text{surgeMultiplier})$$