# ASSALAMUALAIKUM

# IIUC Transport System

This project will be built by using oop in C++, Presented by


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# FEATURES

*Real-Time Tracking (Simulated)*
- Simulates vehicle locations using periodic updates.

*Reservation System*
- Allows students to book seats for specific schedules.

*User Management*
- Creates profiles with different access levels for students, staff, and visitors.

*Emergency Notifications*
- Notifies users of delays, breakdowns, or schedule changes.

*Maintenance Scheduling*
- Schedules vehicle maintenance based on usage or time intervals.

*Feedback System*
- Enables users to provide feedback on services.

*Route Optimization*
- Suggests optimal routes based on traffic, time, or user density.

# OOP CONCEPTS USED

- CLASSES AND OBJECTS
- INHERITANCE
- POLYMORPHISM
- ENCAPSULATION
- ABSTRACTION

# KEY FUNCTIONALITIES

- ADDING AND MANAGING VEHICLES.
- CREATING AND MANAGING ROUTES.
- SCHEDULING AND TRACKING TRANSPORTATION.
- USER INTERFACE FOR INTERACTING WITH THE SYSTEM.

# CONCLUSION

- THE TRANSPORT SYSTEM PROJECT USES OBJECT-ORIENTED DESIGN TO EFFICIENTLY MANAGE USERS, VEHICLES, ROUTES, AND DRIVERS. IT IS FLEXIBLE, SCALABLE, AND MODELS REAL-WORLD TRANSPORT MANAGEMENT EFFECTIVELY.

# "Thank You "