

- ① Encapsulation
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Examples

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1] Student

State

- studentName : String
- rollNumber : int
- grade : String
- contactNumber : int

Beha methods (Behaviour)

- attendClass()
- submitAssignment()
- checkResult()
- requestLeave()

2] Car

State :

- companyName : String
- model : String
- color : String
- speed : double

Methods :

- startEngine()
- accelerate()
- applyBrake()
- refuel()

3] Employee

- employeeName : String
- employeeID : int
- department : String
- salary : double
- contactNumber : int

Methods

- viewSalarySlip()

- applyLeave()
- updateContact()
- markAttendance()

4 Mobilephone

State:

- brand: String
- model: String
- batteryLevel: int

Methods:

- makeCall()
- sendMessage()
- installApp()

5 ATM Machine

State:

- machineID: int
- location: String
- bankName: String
- cashAvailable: double

Methods:

- withdrawCash()
- depositCash()
- checkBalance()
- printReceipt()

6 Laptop

State:

- brand: String
- processor: String
- batteryStatus: String

methods:

- poweron()
- runApplication
- connectWiFi
- shutdown()

7] onlineShoppingcart

State

- cartID: int
- userID: int
- discountcode: String

methods:

- addItem()
- removeItem()
- calculateTotal()
- checkout()

8] Airplane

State:

- AirlineName: String
- FlightNumber: String
- Speed: double

methods:

- takeoff()
- land()
- increaseAltitude()

9] TrainTicket

State:

- ticketNumber: int
- passengerName: String

- trainNumber : int
- seatNumber : string

Methods

- printTicket()
- cancelTicket()
- updateSeat()

10] Music Player

State :

- currentSong : String
- volume : int
- playlist : Array

Methods

- play()
- pause()
- nextSong()