

① Encapsulation

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Examples

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1] Student

State

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

Behaviour (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) online shopping cart

State:

- cartID: int
- userID: int
- discountCode: String

methods:

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

8) Airplane

State:

- airlineName: String
- flightNumber: String
- speed: dual

methods:

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

9) train ticket

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()