

Question: List at least 10 real-life examples for Encapsulation.

### 1. ATM Machine

ATM Machine

atmID: int

location: string

bankName: string

cashAvailable: double

status: string

authenticateUser()

withdrawCash()

checkBalance()

depositCash()

### 2. Mobile Phone

Mobile Phone

brand: string

model: string

storage: int

batteryLevel: int

phoneNumber: string

makeCall()

sendMessage()

chargeBattery()

installApp()

### 3. Car

Car

model: string

company: string

fuelLevel: double

speed: int  
engineNumber: string  
startCar()  
accelerate()  
applyBrake()  
stopCar()

#### 4. Washing Machine

Washing Machine  
brand: string  
capacity: int  
mode: string  
timer: int

powerStatus: string  
startWash()  
stopWash()  
rinseClothes()  
spinDry()

#### 5. Library Book

Library Book  
bookID: int  
title: string  
author: string  
category: string  
availability: boolean  
issueBook()  
returnBook()  
checkAvailability()

## 6. Employee Record

### Employee

employeeID: int

name: string

department: string

salary: double

contactNumber: string

calculateSalary()

updateDetails()

displayProfile()

## 7. Online Shopping Cart

### Shopping Cart

cartID: int

customerName: string

totalAmount: double

itemCount: int

paymentStatus: string

addItem()

removeItem()

calculateTotal()

checkout()

## 8. Hospital Patient Record

### Patient

patientID: int

name: string

age: int

disease: string

doctorAssigned: string

admitPatient()  
prescribeMedicine()  
dischargePatient()

## 9. Elevator System

Elevator

elevatorID: int

currentFloor: int

capacity: int

status: string

direction: string

moveUp()

moveDown()

openDoor()

closeDoor()

## 10. Online Banking App

Online Banking

userID: int

accountNumber: int

balance: double

mobileNumber: string

accountType: string

login()

transferMoney()

checkBalance()

logout()