BankAccount

SavingAccount

**UML Diagram of Single**

**Inheritance**

-

balance : double

-

accountHolder : string

+

BankAccount(name: string,

initialBalance: double)

+

deposit(amount: double): void

+

withdraw(amount: double): void

+

getBalance(): double

+

getAccountHolder(): string

-

interestRate: double

+

SavingsAccount(name: string,

initialBalance: double, rate: double)

+

addInterest(): void

Camera

MusicPlayer

SmartPhone

UML Diagram of Multiple

Inheritance

capturePhoto

()

+

+

recordVideo

()

+

playMusic

()

+

pauseMusic

()

+

makeCall

()

+

sendText

()

Vehicle

Car

ElectricCar

UML Diagram of

Multilevel Inheritance

+

startEngine

()

+

stopEngine

()

drive

()

+

+

honk

()

+

chargeBattery

()

+

showBatteryStatus

()

Vehicle

Car

Bike

Truck

UML Diagram of Hierarchical

Inheritance

+

startEngine

()

+

openTrunk

()

+

kickStart

()

+

loadCargo

()

Person

Teacher

Student

TeachingAssistant

UML Diagram of Hybrid Inheritance

(

Diamond Problem

)

UML Diagram of Hybrid Inheritance

)

Virtual Inheritance

(

Person

Teacher

Student

TeachingAssistant

+

()

showIdentity

teach

()

+

()

+

study

+

assist

()

showIdentity

()

+

+

teach

()

+

study

()

+

assist

()