//problem 11.1

-color: String -filled: boolean -dateCreated: java.util.Date #GeometricObject() #GeometricObject(color: String, filled: boolean) +getColor(): String +setColor(color: String): void +isFilled(): boolean +setFilled(filled: boolean): void +getDateCreated(): java.util.Date +toString(): String +getArea(): double

Triangle

-side1: double -side2: double -side 3: double

+Triangle()

+Triangle(s1: double, s2: double, s3: double)

+getSide1(): double +getSide2(): double +getSide3(): double +getArea(): double +getPerimeter(): double

+getPerimeter(): double

+toString(): String

//problem 11.3

Account

-id: int

-balance: double

-annualInterestRate: double -dateCreated: java.util.Date

+Account()

+Account(myId: int, myBalance: double)

+getId(): int

+setId(newId: int): void +getBalance(): double

+setBalance(newBalance: double): void

+getAnnualInterestRate(): double

+setAnnualInterestRate(newInterestRate: double): void

+getDateCreated(): java.util.Date +getMonthlyInterestRate(): double +getMonthlyInterest(): double +withdraw(amount: double): void +deposit(amount: double): void

+toString(): String

CheckingAccount

-overDraftLimit: double

+CheckingAccount()

+CheckingAccount(myId: int, myBalance: double, limit: double)

+getOverDraftLimit(): double

+setOverDraftLimit(limit: double): void +withdraw(amount: double): void

+toString(): String

SavingsAccount

+SavingsAccount()

+SavingsAccount(myId: int, myBalance: double)

+withdraw(amount: double): void

+toString(): String

//problem 11.5

Course

-courseName: String

-students: ArrayList<String> -numberOfStudents: int

+Course(courseName: String)

+addStudents(student: String): void +getStudents(): ArrayList<String> +getNumberOfStudents(): int

+getCourseName(): String

+dropStudent(student: String): void

+clear(): void