

Account

-id: int
-balance: double
-annualInterestRate: double

-dateCreated: string
+Account()
+Account(newId: int
 newBalance: double)
+setId(newId: int)
+setBalance(newBalance: double)
+setAnnualInterestRate(newAnnualInterestRate: double)
+getID(): int
+getBalance(): double
+getAnnualInterestRate(): double
+getDateCreated(): string
+getMonthlyInterestRate(): double
+getMonthlyInterest(): double
+withdraw(amount: double)
+deposit(amount: double)

Checking Account

-overdraftLimit: double
+checkingAccount()
+CheckingAccount(newId: int
 newBalance: double
 overdraftLimit: double): void
+getOverdraftLimit(): double
+withdraw(amount: double): boolean
+toString(): string

Savings Account

+SavingsAccount()
+withdraw(amount: double): boolean

GeometricObject

- Color : String
- Filled : boolean

+ GeometricObject()

+ GeometricObject(color : String
Filled : boolean)

+ getColor() : String

+ setColor(color : String) : void

+ isFilled() : boolean

+ setFilled(Filled : boolean) : void

+ toString() : String

Triangle

- side1 : double

- side2 : double

- side3 : double

+ Triangle()

+ Triangle(side1 : double
 side2 : double
 side3 : double)

+ getSide1(side1 : double) : void

+ getSide2(side2 : double) : void

+ getSide3(side3 : double) : void

+ setSide1(side1 : double) : void

+ setSide2(side2 : double) : void

+ setSide3(side3 : double) : void

+ getArea() : double

+ getPerimeter() : double

+ toString() : String

Course

- courseName: String
- students: ArrayList<String>
- numberOfStudents: int
- +Course(courseName: String)
- +getCourseName(): String
- +addStudent(student: String): void
- +dropStudent(student: String): void
- +getStudents(): String[]
- +getNumberOfStudents(): int