

Problem 11.1: Geometric Object

GeometricObject
-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

Problem 11.1 Triangle

Triangle
-side1: double -side2: double -side3: double
+Triangle() +Triangle(side1: double, side2: double, side3: double) +getSide1(): double +getSide2(): double +getSide3(): double +getArea(): double +getPerimeter(): double +toString(): String

Problem 11.3 Account

Account
-id: int -balance: double -annualInterestRate: double -dateCreated: string
+Account() +Account(newid: int, newBalance: double) +setId(newId: int) +setBalance(newBalance: double) +setAnnualInterestRate(newAnnualInterestRate: double)

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+getId(): int
+getBalance(): double
+getAnnualInterestRate(): double
+getDateCreated(): String
+getMonthlyInterestRate(): double
+getMonthlyInterest(): double
+withdraw(amount: double)
+deposit(amount: double)

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Problem 11.3 Checking Account

CheckingAccount
-overdraftLimit: double
<pre> +CheckingAccount() +CheckingAccount(newId: int, newBalance: double, overdraftLimit: double) +setOverdraftLimit(overdraftLimit: double): void +getOverdraftLimit(): double +withdraw(amount: double): boolean +toString(): String </pre>

Problem 11.3 Savings Account

SavingsAccount
<pre> +SavingsAccount() +withdraw(amount: double): boolean </pre>

Problem 11.5 Course

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