

### Exercise 11.1

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

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

### Exercise 11.3

Account
-id: int -balance: double -annualInterestRate: double -dateCreated: Date
Account() Account(id: int, balance: double) +setId(id: int) +setBalance(balance: double) +setAnnualInterestRate(annualInterestRate: double) +getId(): int +getBalance(): double +getAnnualInterestRate(): double +getDateCreated(): String +getMonthlyInterestRate(): double +getMonthlyInterest(): double +withdraw(amount: double) +deposit(amount: double) +toString: String

CheckingAccount
-overdraftLimit: double
+CheckingAccount() +CheckingAccount(id: int, balance: double, overdraftLimit: double) +setOverdraftLimit(overdraftLimit: double): void +getOverdraftLimit(): double +withdraw(amount: double): boolean +toString(): String

SavingsAccount
+SavingsAccount() +SavingsAccount(id: int, balance: double): +withdraw(amount: double): void

### Exercise 11.5

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