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UML Diagrams

Programming Exercise 11.1:

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

Geometric Object
-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

Programming Exercise 11.3:

Account
-id: int -balance: double -annualInterestRate: double -dateCreated: Date
+Account()

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

```

Savings Account

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+SavingsAccount()
+SavingsAccount(id: int, balance: double)
+withdraw(withdrawal: double): void
+toString(): String

```

Checking Account

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-OverdraftLimit: double

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+CheckingAccount()
+CheckingAccount(id: int, balance: double, OverdraftLimit: double)
+setOverdraftLimit(): void
+getOverdraftLimit(): double
+withdraw(withdrawal: double): void
+toString(): String

```

Programming Exercise 11.5:

Course

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-courseName: String
-students: ArrayList<String>

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+Course(courseName: String)
+addStudent(student: String): void
+getStudents(): String[]
+getNumberOfStudents: int
+getCourseName: String

```

