

## Lab 6 UML's

### 9.1

Rectangle
height: double width: double
Rectangle() Rectangle(newHeight: double, newWidth: double) getPerimeter(): double getArea(): double

Rectangle1: Rectangle
height = 1 width = 1

Rectangle2: Rectangle
height = 4 width = 40

Rectangle3: Rectangle
height = 3.5 width = 35.9

## 9.7

Account
-id: int -balance: double -annualInterestRate: double -dateCreated: java.util.Date
+Account() +Account(annualInterestRate: double) +getID(): int +setID(id: double): void +getBalance(): double +setBalance(balance: double): void +getAnnualInterestRate(): double +setAnnualInterestRate(annualInterestRate: double): void +getDateCreated(newDateCreated: Date): double +setDateCreated(newDateCreated: Date): void +getMonthlyInterestRate: double +getMonthlyInterest: double +deposit(depositAmount: double): void +withdraw(withdrawAmount: double) void

## 9.11

Linear Equation
<ul style="list-style-type: none"><li>-a: double</li><li>-b: double</li><li>-c: double</li><li>-d: double</li><li>-e: double</li><li>-f: double</li></ul>
<ul style="list-style-type: none"><li>+LinearEquation</li><li>+LinearEquation(a1: double, b1: double, c1: double, d1: double, e1: double, f1: double)</li><li>+isSolvable(): boolean</li><li>+getA(): double</li><li>+setA(a: double): void</li><li>+getB(): double</li><li>+setB(b: double): void</li><li>+getC(): double</li><li>+setC(c: double): void</li><li>+getD(): double</li><li>+setD(d: double): void</li><li>+getE(): double</li><li>+setE(e: double): void</li><li>+getF(): double</li><li>+setF(f: double): void</li><li>+getX(): double</li><li>+getY(): double</li></ul>