

Lab 8 UML Diagrams

Problem 11.1

GeometricObject
<ul style="list-style-type: none">- color: String- filled: boolean- dateCreated: Date
<ul style="list-style-type: none">+ GeometricObject()+ GeometricObject(String color, boolean filled)+ getColor(): String+ setColor()+ isFilled(): boolean+ setFilled ()+ getDateCreated(); Date

Triangle

- + side1: double
- + side2: double
- + side3: double

- + Triangle()
- + Triangle(double side1, double side2, double side3)
- + getSide1(): double
- + setSide1(): double side1
- + getSide2(): double
- + setSide2(): double side2
- + getSide3(): double
- + setSide3(): double side3
- + getArea(): double
- + getPerimeter(): double
- + toString(): String

Problem 11.3

Account
<ul style="list-style-type: none">- id: int- balance: double- annualInterestRate: double- dateCreated: Date
<ul style="list-style-type: none">+ Account()+ Account(int id, double balance)+ getId(): int+ setId()+ getBalance(): double+ setBalance()+ getAnnualInterestRate(): double+ setAnnualInterestRate+ getDateCreated(): Date+ getMonthlyInterestRate(): double+ getMonthlyInterest(): double+ withdraw()+ deposit()+ toString(): String

Saving
+ Saving() + Saving (int id, double balance) + withdraw() + toString(): String

Checking
+ overdraftLimit: double
+ Checking() + Checking (int id, double balance, double overdraftLimit) + withdraw() + toString(): String

Problem 11.5

CourseRewrite
<ul style="list-style-type: none">- courseName: String- students: ArrayList<String>
<ul style="list-style-type: none">+ CourseRewrite(String courseName)+ addStudent+ getCourseName(): String+ getStudents(): ArrayList<String>+ getNumberOfStudents(): int+ dropStudent()+ clear()

