

Lab 8 UML

11.1

GeometricObject
-color: String -filled: boolean -dateCreated: java.util.Date
+GeometricObject() +GeometricObject(String: color, boolean: filled) +getColor(): String +setColor(String: color) +isFilled(): boolean +setFilled(boolean: filled) +getDateCreated(): java.util.Date +toString(): String

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

11.3

Account
-id: int -balance: double -annualInterestRate: double -dateCreated: java.util.Date
+Account() +Account(int: id1, double: balance1, double: annualInterestRate1) +Account(int id, double balance)

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+getId(): int
+setId(int: newId)
+getBalance(): double
+setBalance(double newBalance)
+getAnnualInterestRate(): double
+setAnnualInterestRate(double newAnnualInterestRate)
+getDateCreated(): Date
+getMonthlyInterestRate(): double
+deposit(double depositAmount)
+withdraw(double withdrawAmount)
+toString(): String

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CheckingAccount
-OVERDRAFT_LIMIT: double
+CheckingAccount(int id, double balance)
+withdraw(double wAmount)
+toString(): String

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

11.5

Course
-courseName: String
-numberOfStudents: int
-students: Array
+Course(String courseName)
+setCourseName(String courseName)
+getCourseName(): string
+addStudent(String student)
+dropStudent(String student)
+getStudents(): String
+getNumberOfStudents(): int
+clear(): void