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// Lab 8 UML Diagrams //

Problem 11.1

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

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

Problem 11.3

Account
- id : int - balance : double - annualInterestRate : double

+   Account()
+   Account(newID : int, newBalance : double)
+   getId()
+   setID(newID : int)
+   getBalance()
+   setBalance(newBalance : double)
+   getDateCreated()
+   setInterestRate(newInterestRate : double)
+   getMonthlyInterestRate()
+   getMonthlyInterest()
+   withdraw(amount : double)
+   deposit(amount : double)
+   toString()

SavingsAccount (extends Account)
-   overdraft : double
+   SavingsAccount(id : int, balance : double)   +   withdraw(amount : double)   +   toString()

CheckingAccount (extends Account)
-   overdraft : double
+   CheckingAccount(id : int, balance : double)   +   withdraw(amount : double)   +   toString()

Problem 11.5

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

+ clear()