Hannah Youssef Software Development I Professor Juan Arias 4 April 2017

Lab 9 UML Diagrams

Problem 12.5 GeometricObject Class UML Diagram:

```
-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
```

Problem 12.5 Triangle Class UML Diagram:

```
Triangle

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

Problem 12.13 Loan Class UML Diagram:

```
Loan
-annualInterestRate: double
-numberOfYears: int
-loanAmount: double
-loanDate: java.util.Date
+Loan()
+Loan(annualInterestRate: double, numberOfYears: int,
loanAmount: double)
+getAnnualInterestRate(): double
+getNumberOfYears(): int
+getLoanAmount(): double
+getLoanDate(): java.util.Date
+setAnnualInterestRate(annualInterestRate: double): void
+setNumberOfYears(numbersOfYears: int): void
+setLoanAmount(loanAmount: double): void
+getMonthlyPayment(): double
+getTotalPayment(): double
```