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### Lab 6 UML Diagrams

# **Problem 9.1 Rectangle Class UML Diagram:**

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

## **Problem 9.7 Account Class UML Diagram:**

```
Account
-id: int
-balance: double
-annualInterestRate: double
-dateCreated: String
+Account()
+Account(newid: int, newBalance: double)
+setId(newId: int)
+setBalance(newBalance: double)
+setAnnualInterestRate(newAnnualInterestRate: double)
+qetId(): int
+getBalance(): double
+getAnnualInterestRate(): double
+getDateCreated(): String
+getMonthlyInterestRate(): double
+getMonthInterest(): double
+withdraw(amount: double)
+deposit(amount: double)
```

# **Problem 9.11 LinearEquation Class UML Diagram:**

```
LinearEquation
-a: double
-b: double
-c: double
-d: double
-e: double
-f: double
+LinearEquation(a: double, b: double, c: double,
                d: double, e: double, f: double)
+getA(): double
+getB(): double
+getC(): double
+getD(): double
+qetE(): double
+getF(): double
+isSolvable(): Boolean
getX(): double
getY(): double
```

# **Problem 9.13 Location Class UML Diagram:**

