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Software Development I

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Lab 6 UML Diagrams

**Problem 9.1 Rectangle Class UML Diagram:**

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| --- |
| 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)  +getId(): int  +getBalance(): double  +getAnnualInterestRate(): double  +getDateCreated(): String  +getMonthlyInterestRate(): double  +getMonthInterest(): double  +withdraw(amount: double)  +deposit(amount: double) |

**Problem 9.11 LinearEquation Class UML Diagram:**

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| --- |
| 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  +getE(): double  +getF(): double  +isSolvable(): Boolean  getX(): double  getY(): double |

**Problem 9.13 Location Class UML Diagram:**

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| --- |
| Location |
| +row: int  +column: int  +maxValue: double  +Location(array: double[][]) |