Problem11.1

|  |
| --- |
| GeometricObject |
| -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 |

|  |
| --- |
| 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 |

Problem11.3

|  |
| --- |
| Account |
| -id: int  -balance: double  -annualInterestRate: double  -dateCreated: Date |
| Account()  Account(newId: int, newBalance: double)  +getMonthlyInterestRate(): double  +getId(): int  +setId(): void  +getBalance(): double  +setBalance(): void  +getAnnualInterestRate(): double  +setAnnualInterestRate(): void  +getDateCreated(): String  +getMonthlyInterest(): double  +withdraw(amount: double) : void  +toString(): String |

|  |  |
| --- | --- |
| CheckingAccount | SavingsAccount |
| -overDraftLimit: int | -overDrawnLimit: int |
| CheckingAccount()  CheckingAccount(newId: int, newBalance: double)  +getOverDraftLimit(): int  +withdraw(amount: double): void  +toString(): String | SavingsAccount()  SavingsAccount (newId: int, newBalance: double)  +get OverDrawnLimit (): int  +withdraw(amount: double): void  +toString(): String |

Problem11.5

|  |
| --- |
| Course |
| -courseName: String  -students: ArrayList<String>  -numberOfStudents: int |
| + Course(courseName: String)  + addStudent(student: String): void  + getStudent() : String[]  + getNumberOfStudents(): int  + getCourseName(): String  + dropStudent(student: String): void  + clear(): void |