**BankAccount Class UML**

|  |
| --- |
| BankAccount |
| -accountNumber : int  -name : String  #balance : double  -annualInterestRate : double  -dateCreated : Date |
| +BankAccount()  +BankAccount(accountNumber: int, name: String, balance: double)  +getAccountNumber() : int  +setAccountNumber(accountNumber: int) : void  +getName() : String  +setName(name: String) : void  +getBalance() : double  +setBalance(balance: double) : void  +getAnnualInterestRate() : double  +setAnnualInterestRate(annualInterestRate: double) : void  +getDateCreated() : Date  +withdraw(amount: double) : void  +deposit(amount: double) : void  +toString() : String |

**CheckingAccount Class UML**

|  |
| --- |
| CheckingAccount |
| # overdraftLimit : int |
| + CheckingAccount(accountNumber: int, name: String, balance: double)  + toString() : String |

extends

|  |
| --- |
| BankAccount |

**SavingsAccount Class UML**

|  |
| --- |
| SavingsAccount |
| - annualInterestRate : double |
| + SavingsAccount()  + SavingsAccount(accountNumber: int, name: String, balance: double)  + setAnnualInterestRate(annualInterestRate: double) : void  + getMonthlyInterestRate() : double  + getMonthlyInterest() : double  + toString() : String |

extends

|  |
| --- |
| BankAccount |