```java
package problem2;
class Account {
	private final static double DEFAULT_BALANCE = 0.0;
	private double balance;
	private AccountType  acctType;

	private Employee employee;

	Account(Employee emp, AccountType acctType, double balance ) {
		employee = emp;
		this.acctType = acctType;
		this.balance = balance;

	}

	Account(Employee emp, AccountType acctType) {
		this(emp, acctType, DEFAULT_BALANCE);
	}

	public String toString() {
		return "type = " + acctType + ", balance = " + balance;
	}

	public void makeDeposit(double deposit) {
		// implement
		this.balance=this.balance+deposit;
	}

	public boolean makeWithdrawal(double amount) {
		if (this.balance <= amount)
		{
			this.balance=this.balance-amount;
			return true;

		}

		return false;
	}

	public static double getDefaultBalance() {
		return DEFAULT_BALANCE;
	}

	public double getBalance() {
		return balance;
	}

	public AccountType getAcctType() {
		return acctType;
	}


}
package problem2;

public enum AccountType {
	  CHECKING ,
	  SAVINGS ,
	  RETIREMENT ;

}
```

```
package problem2;

import java.util.Date;
import java.util.GregorianCalendar;

public class Employee {
	// instance fields
	private String name;
	private String nickName;
	private double salary;
	private  Date hireDay;

	// constructor
	Employee(String name, String aNickName, double aSalary, int aYear,
			int aMonth, int aDay) {
		this.name = name;
		nickName = aNickName;
		salary = aSalary;
		GregorianCalendar cal = new GregorianCalendar(aYear, aMonth - 1, aDay);
		hireDay = cal.getTime();
	}

	// instance methods
	public String getName() {
		return name;
	}
	public String getNickName() {
		return nickName;
	}
	public void setNickName(String aNickName) {
		nickName = aNickName;
	}
	public double getSalary() {
		return salary;
	}
	// needs to be improved
	public Date getHireDay() {
		return   (Date)hireDay.clone();

	}
	public void raiseSalary(double byPercent) {
		double raise = salary * byPercent / 100;
		salary += raise;
	}
	private String format = "name = %s, salary = %.2f, hireDay = %s";

	public String toString() {
		return String.format(format, name, salary, Util.dateAsString(hireDay));
	}
}
```

```java
package problem2;

public class testProblem2 {
	public static void main(String[] args) {

		Employee employee = new Employee("Juan Francisco", "Maxiplux", 1500000, 2018, 1, 30);
		Account account_checking = new Account(employee, AccountType.CHECKING,300.0);
		Account account_savings = new Account(employee, AccountType.SAVINGS,300.0);
		Account account_retirement = new Account(employee, AccountType.RETIREMENT,300.0);

		account_checking.makeDeposit(100);
		account_savings.makeDeposit(100);
		account_retirement.makeDeposit(100);

		account_checking.makeWithdrawal(50);
		account_savings.makeWithdrawal(50);
		account_retirement.makeWithdrawal(50);

		Account[] database = {account_checking,account_savings,account_retirement};

		for (Account account : database) {
			System.out.println(account);

		}









			}

}
```

```
package problem2;

import java.text.DateFormat;
import java.util.Date;

public class Util {
	public static String dateAsString(Date d) {
		DateFormat f = DateFormat.getDateInstance(DateFormat.SHORT);
		return f.format(d);
	}

}
```