WEEK 5 (Bank account) Inheritance in java

```
import java.util.scanner;

class Account {
    String customerName;
    int accountnumber;
    String accountType;
    double balance;
    public account (String customerName, int accountNumber,
                    String accountType, double balance){
        this.customerName = customerName;
        this.accountNumber = accountNumber;
        this.accountType = accountType;
        this.balance = balance;
    }
    public void deposit (double amount){
        balance += amount;
        System.out.println("Deposit " + amount);
    }
    public void displaybalance () {
        System.out.println ("Balance" + balance");
    }
    public boolean withdraw (double amount) {
        if (amount > balance) {
            System.out.println ("Insufficient funds");
            return false;
        }
        balance -= amount;
        System.out.println("withdraw" + amount);
        return true;
    }
}
```

```
class curAcc extends account {
    double minimumBalance ;
    double penalty;
  public curAcc (String customername, int accountnumber, double
                balance, double minimumbalance, double penalty) {
      super (customerName, accountName, "current", balance);
      this . minimumBalance = minimumbalance;
      this . penalty = penalty ;
  }
  public void checkMinimumBalance () {
      if (balance < minimumbalance ) {
       balance -= penalty;
       System. out. println ("Min balance not maintained
                        penalty to + penalty + "imposed " );
    }
  }
}

class savAcc extends account {
   double interestRate ;
   public SavAcc (String customername, int accountNumber,
                double balance, double interestRate ) {
      super (customer Name , account Number , "Savings ", balance);
      this . intert Rate = interest Rate ;
  }
  public void computeAndDepositInterest () {
    double interbt = balance * (interest/100);
    balance += interest ;
    SysO ("Interest of" + interest + "has been added");
  }
}
```

```
public class Bank {
    public static void main(String [] args) {
        Scanner sc = new Scanner(System.in);

        SavAcct savaccount = new savacct ("Abhay", 1001, 1000, 5);
        CurAcct curAccount = new cur Acct ("Koala", 2001, 1000, 50);

        System.out.println ("Savings accounts");
        savaccount.displaybalance ();
        savaccount . deposit (500);
        savaccount.displaybalance ();
        savaccount. computeanddepositInterest ();
        savaccount . display Balance ();
        savaccount . withdraw (300);
        savaccount . displayBalance ();

        System.out.println ("current account");
        curAccount. display Balance ();
        curAccount . dposit (200);
        Cur account . displaybalance ();
        cur account . withdraw (1500);
        cur account . display Balance ();
        cur account . checkMinimumBalance ();
        curaccount . display balance ();

        System - out. println ("AbhayN4");
        System.out. println ("24BECS404");
    }
}
```

Output

Savings account:
Balance : 1000.0
Deposited : 500.0
Balance : 1500.0
Interest of 75.0 has be added
Balance 1575.0
withdraw 300.0
Balance : 1275.0

current account:
Balance : 2000.0
Deposited : 200.0
Balance : 2200.0
Withdraw : 1500.0
Balance : 700.0
Minimum balance not maintained
Peralty of 50.0 imposed
Balance 650.0