BANK TRANSACTION SYSTEM

```
import java.lang.*;
import java.util.*;
class Bank{
   int balance;
   void withdraw(Scanner s){
      System.out.println("Enter amount: ");
      int amount = s.nextInt();
      if(amount > 0 && amount % 100 == 0){
         if(amount > balance){
            System.out.println("Amount is insufficient.");
         }
         else{
            System.out.println("Amount withdrawn = "+amount);
            balance -= amount;
            System.out.println("Balance Amount = "+balance);
            System.out.println("Transaction Successful");
         }
      }
      else{
         System.out.println("Invalid amount");
      }
   }
   void deposit(Scanner s){
      System.out.println("Enter amount: ");
      int amount = s.nextInt();
      if(amount > 0 && amount % 100 == 0){
         System.out.println("Amount deposited = "+amount);
         balance += amount;
         System.out.println("Balance Amount = "+balance);
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            System.out.println("Transaction Successful");
        }
        else{
            System.out.println("Invalid amount.");
        }
    }
    void pay(Scanner s){
        System.out.println("Enter Amount: ");
        float amount = s.nextFloat();
        if(amount > 0 && balance>=amount){
            System.out.println("Transaction Successful");
            balance -=(int)amount;
            System.out.println("Balance Amount = "+balance);
        }
        else{
            System.out.println("Invalid amount");
        }
    }
}
class check{
    boolean k = false;
    boolean valid(int enteredPin,int correctpin){
        if(enteredPin>=1111 && enteredPin<=9999 && enteredPin == correctpin){
            k = true;
        }
        return k;
    }
}
public class Transaction {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
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    int correctpin = 1234;
    int attempts = 0;
    while(attempts<3){
       System.out.println("Enter pin: ");
       int enteredPin = s.nextInt();
       check k = new check();
       boolean l = k.valid(enteredPin, correctpin);
       if(l){
          performTransaction(s);
          return;
       }
       else{
          System.out.println("Invalid pin");
          attempts++;
       }
    }
    System.out.println("Wrong pin entered. Your transaction are temporarily blocked for 24
hours.");
    return;
  }
  static void performTransaction(Scanner s){
    Bank b = new Bank();
    b.balance = 10000;
    boolean continueTransaction = true;
    while(continueTransaction){
       System.out.println("1.withdraw\n2.deposit\n3.payment\n4.exit\n");
       System.out.println("Enter choice:");
       int ch = s.nextInt();
       switch(ch){
          case 1: b.withdraw(s);
                break;
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            case 2: b.deposit(s);
                    break;
            case 3: b.pay(s);
                    break;
            case 4: continueTransaction = false;
            default: System.out.println("Invalid choice");
          }
          if(ch == 1 || ch == 2 || ch == 3){
            System.out.println("Do you want to continue? (yes/no):");
            s.nextLine();
            String str = s.nextLine();
            if(str.equalsIgnoreCase("yes")){
               continueTransaction = true;
            }
          }
       }

    }
}
```