

```
1 package Exercise10;
2
3 abstract class BankAccount {
4     protected int balance;
5
6     public BankAccount(int balance) {
7         this.balance = balance;
8     }
9
10    public int getBalance() {
11        return balance;
12    }
13
14
15    public void deposit(int amount) {
16        balance += amount;
17    }
18
19    public boolean withdraw(int amount) {
20        balance -= amount;
21        return false;
22    }
23
24    public boolean transfer(int amount, BankAccount otherAccount) {
25        if(amount < 0 || amount > balance) {
26            throw new IllegalArgumentException();
27        }
28        if(otherAccount == null) {
29            throw new NullPointerException();
30        }
31        withdraw(amount);
32        otherAccount.deposit(amount);
33        return true;
34    }
35
36    public String toString() {
37        return String.format(Integer.toString(balance));
38    }
39
40    abstract String getAccountType();
41 }
42
```