```
fun Account.withdraw(amount: BigDecimal): Pair<Account, BigDecimal> = when (this) {
   is CurrentAccount -> copy(balance = balance - amount) to amount
   is SavingsAccount -> copy(balance = balance - amount) to amount
   is CreditAccount ->
       if (balance - amount > creditLimit) copy(balance = balance - amount) to amount
       else this to BigDecimal.ZERO
   is TechnicalAccount -> this to BigDecimal.ZERO
```

Generics

fun Account.withdraw(amount: BigDecimal): Pair<Account, BigDecimal>

val account = SavingsAccount("GB00...", 10 000.toBigDecimal(), "0.024".toBigDecimal()) println(account.interest) val (updatedAccount,) = account.withdraw(10.toBigDecimal()) println(updatedAccount.interest)



compilation error: Unresolved reference: interest

val account = SavingsAccount

account.interest

val updatedAccount = account.withdraw

updatedAccount.interest

we know that updatedAccount is SavingsAccount, but the compiler doesn't

Generics

```
fun Account.withdraw(amount: BigDecimal): Pair<Account, BigDecimal> = when (this) {
    is CurrentAccount -> copy(balance = balance - amount) to amount
    is SavingsAccount -> copy(balance = balance - amount) to amount
    is CreditAccount ->
        if (balance - amount > creditLimit) copy(balance = balance - amount) to amount
        else this to BigDecimal.ZERO
    is TechnicalAccount -> this to BigDecimal.ZERO
val account = SavingsAccount("GB00...", 10_000.toBigDecimal(), "0.024".toBigDecimal())
println(account.interest)
                                                                     we know that
                                                                  updatedAccount is
val (updatedAccount, _) = account.withdraw(10.toBigDecimal())
                                                                SavingsAccount, but the
println(updatedAccount.interest)
                                                                    compiler doesn't
```

compilation error: Unresolved reference: interest

Generics to save the day

```
val account = SavingsAccount("GB00...", 10_000.toBigDecimal(), "0.024".toBigDecimal())
println(account.interest)

val (updatedAccount, _) = account.withdraw(10.toBigDecimal())
println(updatedAccount.interest)
```