CS 434/534 | Ozyegin University | Baris Aktemur

In a bank, there are three types of accounts: FixedAccount, InterestAccount, InterestPlusFixedAccount. All the accounts, no matter what the type is, have an account number and a balance. Accounts also have a method named getYearlyIncome that returns the income obtained from that account, calculated as explained in the table below. Accounts also have a toString() method that prints account-related information.

Account Type	Yearly income	Output of toString()
Account		Account
		Number: <i>number</i>
		Balance: balance
FixedAccount	if balance > threshold	Fixed Account
	fixedIncome	Number: <i>number</i>
	else	Balance: balance
	0	Threshold: threshold
		Income: fixedIncome
InterestAccount	balance*interestRate	Interest Account
		Number: <i>number</i>
		Balance: balance
		Interest rate: interestRate
InterestPlusFixedAccount	balance*interestRate	Interest Plus Fixed Account
	+	Number: <i>number</i>
	if balance > threshold	Balance: balance
	fixedIncome	Threshold: threshold
	else	Income: fixedIncome
	0	Interest rate: interestRate

Your task in this question is to design and implement the following classes: Account, FixedAccount, InterestAccount, FixedPlusInterestAccount. Try to have as much code reuse as possible.