

3.x.1 Objects and classes in Java

Description

As mentioned, Java, does not have good support for singular objects as described in chapter 2. In most cases, objects are instances of classes so to create objects like `Account_1010` representing the account of John Smith, we use class `Account`, which may be defined as follows:

```
class Account {    Account(Customer ow) {
    owner = ow;
    }
    Customer owner;
    float balance;
    float interestRate;
    addInterest() {
        balance = balance + (balance * interestRate) / 100;
    }
    deposit(float amount) {
        balance = balance + amount;
    }
    float withdraw(float amount) {
        balance = balance - amount;
        return balance;
    }
}
```

Explain class `Account`, the constructor, introduce main and show how to create instances. Show class `Customer`.

```
final Account account_1010 = new Account(JohnSmithsProfile)
```

Class `Customer`, `JohnSmithsProfile`, references, etc.