Object-oriented programming – Java

Abstract

Exercise 1.

Create an abstract class Document that contains the following fields: city, contractor1, contractor2, signDate (text: dd-mm-yyyy), isSigned (logical).

Constructor sets the new document ready to be signed according to the values passed in the parameters.

The class contains the following public methods:

- displayContractors displays both contractors information
- displayBasicDocumentInfo displays basic information about the document (city, contractor1, contractor2, signDate, if is Signed)
- displayDocumentDetails (abstract) displays all document information
- returnDocumentType (abstract) return text informing about the document type, e.g. invoice, contract of employment etc.
- sign (abstract) performs the signing of the document and displays appropriate message

Then, create a class Invoice that extends Document class. The Invoice class contains fields: invoiceNumber, goodsValue and public get methods.

Then, create a class ContractOfEmployment that contains fields: salary, startDate, endDate as well as public get methods.

Add at least one additional class that extends Document class.

Exercise 2.

Modify the exercise 1 from the previous laboratory. Make the Worker class to be abstract. Modify methods and create abstract methods where it is desirable.