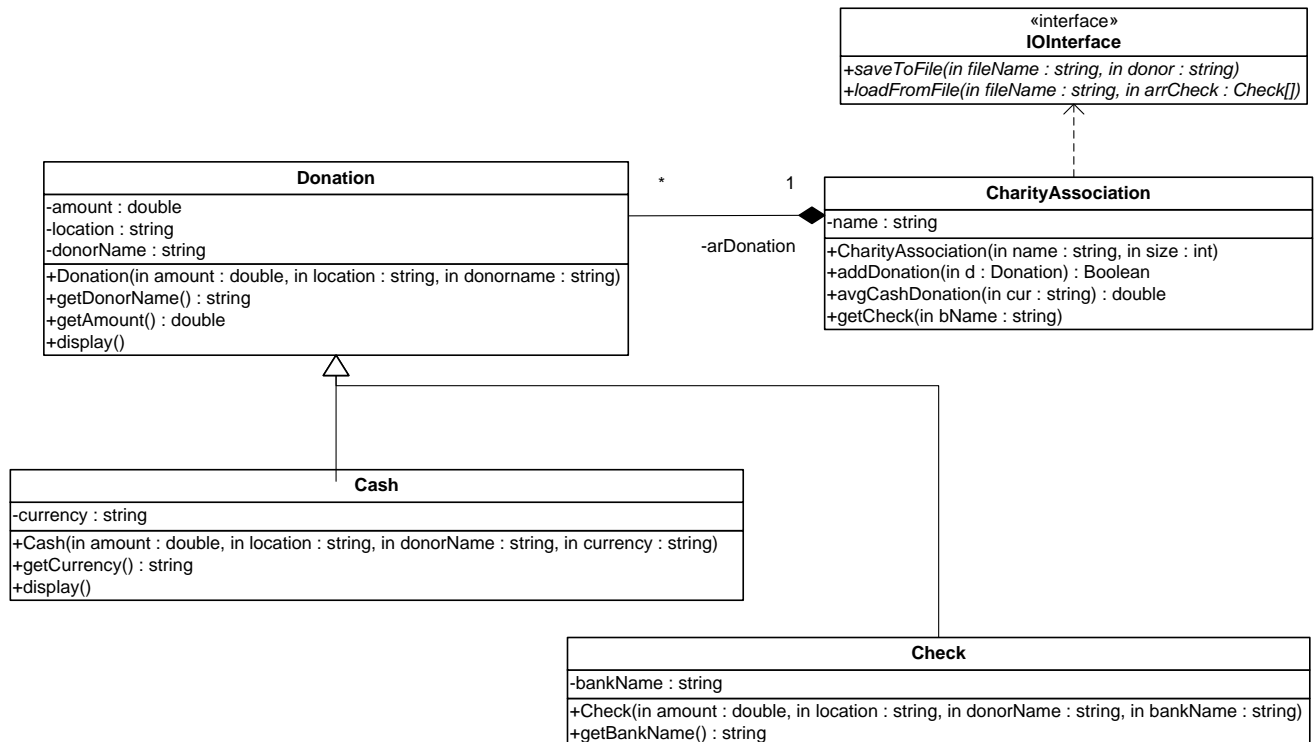


Lab – Files



Donation class:

- ATTRIBUTES:
 - ***amount***: the amount of the donation.
 - ***location***: the location where the donation was received.
 - ***donorName*** :name of the donor.
- METHODS:
 - ***Donation(amount :double, location : string, donorName: string)***: constructor.
 - ***getDonorName(): string***: returns the donor name.
 - ***getAmount: double***: returns the amount of the donation. This method throws an exception if the amount is negative.
 - ***display()***: displays the values of the attributes of the donation.

Cash class:

- ATTRIBUTES:
 - ***currency***: the currency of the cash donation.

- METHODS:
 - *Cash(amount: double, location: string, donorName: string, currency:string):* constructor.
 - *getCurrency():string:* returns the currency.
 - *display():* displays all the attributes of the **Cash** object.

Check class:

- ATTRIBUTES:
 - *bankName:* the name of the bank of the check.
- METHODS:
 - *Check(amount: double, location: string, donorName: string, bankName:string):* constructor.
 - *getBankName():string:* returns the name of the bank of the check.

IOInterfaceinterface:

- METHODS:
 - *saveToFile(fileName:string, donor:string):* This method saves all the **Cash** donations received from the donor **donor** into the object file **fileName**.
 - *loadFromFile(fileName:string, arrCheck: Check[]):* This method reads the **Donation** objects from the file **fileName** and stores the **Check** donations **only** in the array **arrCheck**.

CharityAssociation class:

- ATTRIBUTES:
 - *name:* the name of the association.
- METHODS:
 - *CharityAssociation (name:string, size: int):* constructor.
 - *addDonation(d: Donation):boolean:* adds a donation **d** to the charity association. It returns true if done. False otherwise.
 - *avgCashDonation(cur:string):double:* calculates the average amount of the cash donations which currency is **cur**. The donations with negative amount should not be considered.
 - *getCheck (bName:string): Donation:* returns a **Check** donation which bank name is **bName**.

Translate into Java code the interface *IOInterface*, class *Donation*, *CharityAssociation*, *Cash* and *Check*.