



### ***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**.