Consider the following UML representation of the Payment project and the inheritance relation.

Payment
Amount: double Currency: String
Payment: constructor Set & get Convert: double toString: String

CreditCardPayment
Cardnumber: int
CreditCardPayment: constructor Set & get Authorize : boolean toString: String
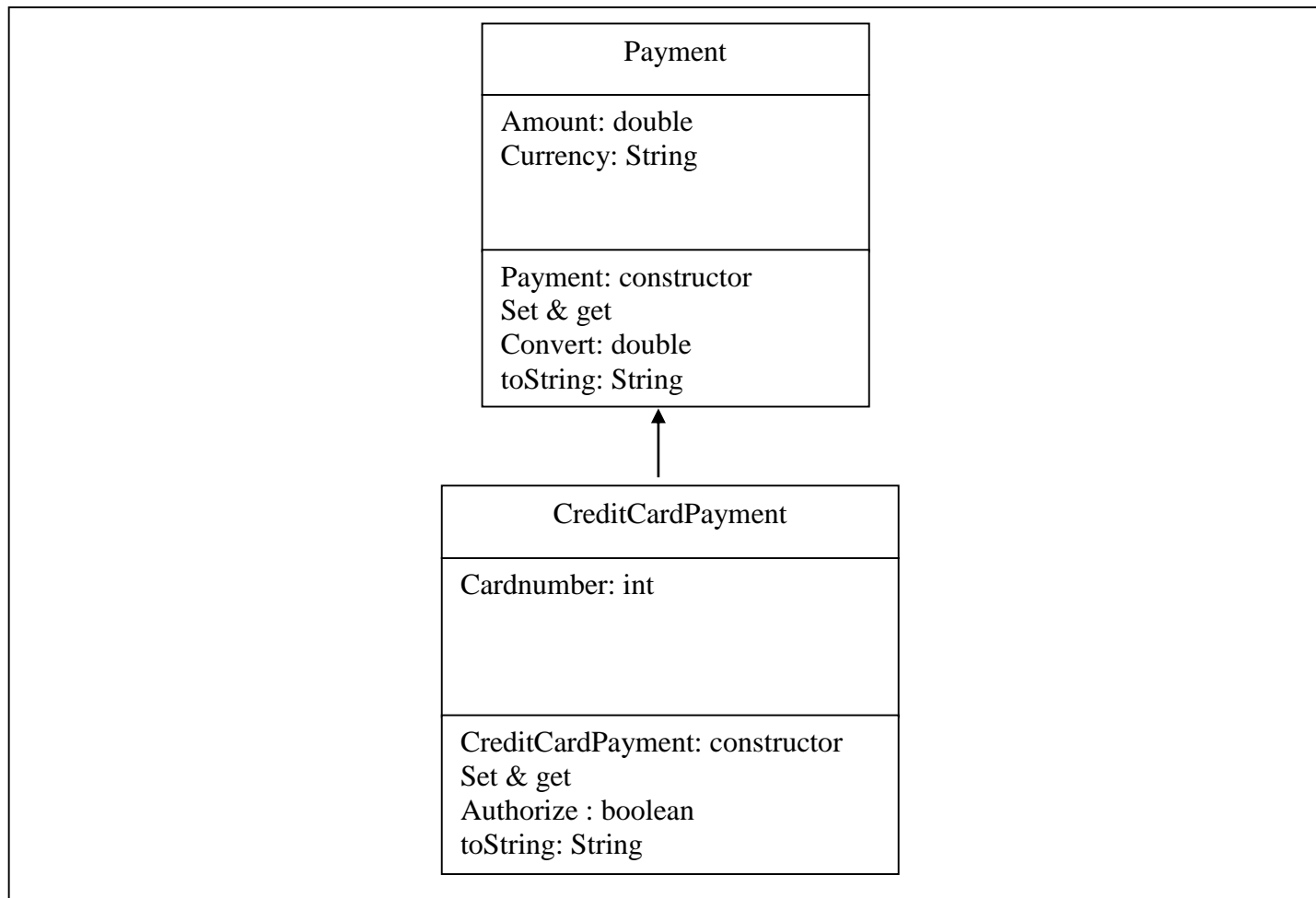
Class Payment
The attribute Current of the classs Payment can have only the value: LBP, Euro, USD.

Build the Payment Class. The constructor should receive 2 parameters. The toString function should print the amount, the currency and the equivalence in LBP as in the following example.

Amount value: 100
Currency: USD
Equivalent LBP : 150000

The function Convert gives the equivalence in LBP of the amount. One USD is equal to 1500 LBP. One Euro is equal to 1.5 USD.

Class CreditCardPayment
Build the CreditCardPayment Class. The constructor should receive 3 parameters.
The authorize() function returns true if the amount is less than 1000000 LBP, and false otherwise.
The toString function should print (the card number, the amount, the currency and the equivalence in LBP) in case of authorize function returns true, as in the following example:

Card number = 1123
Amount value: 100
Currency: USD
Equivalent LBP : 150000

The toString function prints "Operation failed" if the authorize function returns false.

Driver
Write a driver for the class Credit Card Payment that declares an array (PAY) of 4 Credit Card payments and sort them in ascending order according to the Amount value (use a function to sort the array).