```
public class MoneyCard
{
   private String cardNumber;
   private String customerName;
   private String currency;
   private double balance;

   public MoneyCard(String cardNo, String custName,
                    String currType)
   {
      cardNumber = cardNo;
      customerName = custName;
      currency = currType;
      balance = 0;
   }

   public double getBalance()
   {
      return balance;
   }

   public void addFunds(double amount)
   {
     if (amount <= 0)
     {
        System.out.println(amount +
           " is not a valid amount to add!");
     }
     else
     {
        balance = balance + amount;
     }
   }

   public void makePurchase(double amount)
   {
      if (amount <= 0)
      {
         System.out.println("Not a valid amount");
       }
       else if (amount > balance)
      {
         System.out.println("Not enough funds");
      }
      else
      {
          balance -= amount;
      }
   }

   public void displayMoneyCard()
   {
      System.out.println("MoneyCard details: "
               + "\n\tcardNumber: " + cardNumber
               + "\n\tcustomerName: " + customerName
               + "\n\tcurrency: " + currency
               + "\n\tbalance: " + balance);
   }

   public String toString()
   {
      String description = "MoneyCard["
           + " cardNumber: " + cardNumber
           + " customerName: " + customerName
           + " currency: " + currency
           + " balance: " + balance + "]";
      return description;
   }
}
```

```
public class MoneyCardTester
{
   public static void main(String[] args)
   {
   // Test 1 - create a money card and display it
      MoneyCard a1 = new MoneyCard("C10", "Smith", "EUR");
      System.out.println(a1.toString());

   // Test 2 . add funds and display the money card
      a1.addFunds(200);
      System.out.println(a1);

   // Test 3 . try to add an invalid amount and see
      // how the object handles it
      a1.addFunds(-100);
      System.out.println(a1);

   // Test 4 - make a purchase
      a1.makePurchase(100);
      System.out.println(a1);

   // Test 5 - make an invalid purchase request
      a1.makePurchase(0);
      System.out.println(a1);

   // Test 6 - make a purchase request that is too large
      a1.makePurchase(300);
      System.out.println(a1);

   // Test 7 - get the balance
      double balance = a1.getBalance();
      System.out.println("balance: " + balance);

   // Test 8 . display the money card details
      a1.displayMoneyCard();
   }
}
```

Lecture/Workshop (Week 7) – MoneyCardTester output

```
MoneyCard[ cardNumber: C10 customerName: Smith currency: EUR balance: 0.0]

MoneyCard[ cardNumber: C10 customerName: Smith currency: EUR balance: 200.0]

-100.0 is not a valid amount to add!
MoneyCard[ cardNumber: C10 customerName: Smith currency: EUR balance: 200.0]

MoneyCard[ cardNumber: C10 customerName: Smith currency: EUR balance: 100.0]

Not a valid amount
MoneyCard[ cardNumber: C10 customerName: Smith currency: EUR balance: 100.0]

Not enough funds
MoneyCard[ cardNumber: C10 customerName: Smith currency: EUR balance: 100.0]

balance: 100.0

MoneyCard details:
        cardNumber: C10
        customerName: Smith
        currency: EUR
        balance: 100.0
```