2. **Answer the following questions in a pdf file:**

   a. **Come up with a good name for class Coin in problem 1**
      Coin is a good name for the coin class because it describes exactly what the object is.
   b. **What is the relationship between class Coin and class Register?**
      Aggregation because a Coin is a part of a a Register
   c. **What is an immutable class?**
      An immutable class is a class that once an object of that class is defined its content cannot be changed.
   d. **What is an advantage of immutable class?**
      Immutable class are easier to design and implement because the do not change
   e. **What is a side effect of a method?**
      A side effect of a method is that the method modifies some state variable value/arguments passed having a consequence beyond its scope,
   f. **Consider this example:**
      ```
      public double getTotalBalance(ArrayList<BankAccount> accounts)
      {
        double sum = 0;
        while (accounts.size() > 0)
        {
         BankAccount account = accounts.remove(0);
         sum = sum + account.getBalance();
        }
        return sum;
      }
      ```

      What is the problem with the method getTotalBalance();
      This method adds up the sum correctly; however it removes all the objects(the accounts) from the arraylist it takes in which is a side effect of the method. We want to avoid side effects.