

## Exercise 4.1

### *Dynamic proxy*

#### SKILLS:

After this exercise you get the ability to implement and use dynamic proxies.

#### GOALS AND OBJECTIVES:

The goal is to implement and test your own dynamic proxy.

#### WORK STEPS:

- Create two classes *Test1* and *Test2* implementing *Testable* having the method *public void test()*.
- The *test()* implementation should display different messages
- Write a dynamic proxy, which will enable calling *test()* on a known object implementing *Testable*
- Test your code
  - Create two dynamic proxy objects
  - Call the *test()* method on both of them

## Exercise 4.2

### *References*

#### SKILLS:

After completing this exercise, you will get to know all reference types available in Java and see the differences between them.

#### GOALS AND OBJECTIVES:

The goal is to observe how GC works on objects referenced by “non-strong” references.

#### WORK STEPS:

- Write a program which allows you to observe *SoftReference*, *WeakReference* and *PhantomReference* in action.