Implementing the Proxy Pattern

1. Create a New Java Project:

* A new Java project named “ProxyPatternExample” was created.

1. Define Subject Interface:

* An interface image with a method “display()” was created.

1. Implement Real Subject Class:

* A class “RealImage” that implements image and loads an image from a remote server was created.

1. Implement Proxy Class:

* A class “ProxyImage” that implements image and holds a reference to RealImage was created.
* Lazy initialization and caching in “ProxyImage” was implemented.

1. Test the Proxy Implementation:

* A test class to demonstrate the use of “ProxyImage” to load and display images was created.