SUPERSET ID:6413402

**PROXY PATTERN**

Code:

// Subject

interface Image {

void display();

}

// Real Subject

class RealImage implements Image {

private String fileName;

public RealImage(String fileName) {

this.fileName = fileName;

loadFromDisk();

}

private void loadFromDisk() {

System.out.println("Loading image: " + fileName);

}

public void display() {

System.out.println("Displaying image: " + fileName);

}

}

// Proxy

class ProxyImage implements Image {

private RealImage realImage;

private String fileName;

public ProxyImage(String fileName) {

this.fileName = fileName;

}

public void display() {

if (realImage == null) {

realImage = new RealImage(fileName);

}

realImage.display();

}

}

// Test

public class TestProxy {

public static void main(String[] args) {

Image image = new ProxyImage("car.jpg");

// image loaded from disk

image.display();

// image already loaded

image.display();

}

}

Output:

