**package** ProxyPattern;

**public** **interface** Image {

**void** display();

}

**package** ProxyPattern;

**public** **class** RealImage **implements** Image {

**private** String filename;

**public** RealImage(String filename) {

**this**.filename = filename;

loadFromServer();

}

**private** **void** loadFromServer() {

System.***out***.println("Loading image from remote server: " + filename);

}

**public** **void** display() {

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

}

}

**package** ProxyPattern;

**public** **class** ProxyImage **implements** Image {

**private** String filename;

**private** RealImage realImage;

**public** ProxyImage(String filename) {

**this**.filename = filename;

}

**public** **void** display() {

**if** (realImage == **null**) {

realImage = **new** RealImage(filename);

}

realImage.display();

}

}

**package** ProxyPattern;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

Image image = **new** ProxyImage("photo1.jpg");

image.display();

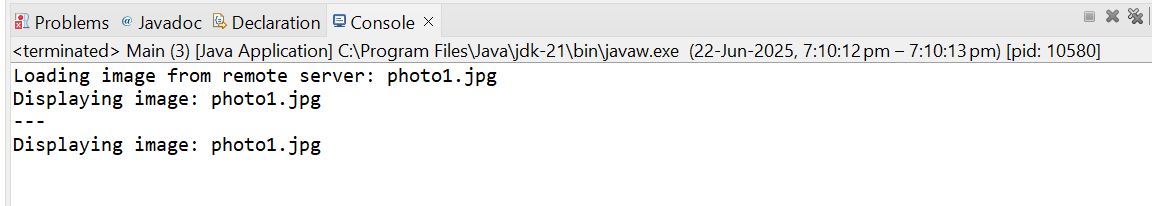
System.***out***.println("---");

image.display();

}

}

**OUTPUT:**

****