SDA LAB 8

21K-3153

interface IMGreader {

    void readFile(String fileName);

}

class BMPReader implements IMGreader {

    public void readFile(String fileName) {

        System.out.println("Reading BMP file: " + fileName);

    }

}

class GifReader implements IMGreader {

    public void readFile(String fileName) {

        System.out.println("Reading GIF file: " + fileName);

    }

}

class JpegReader implements IMGreader {

    public void readFile(String fileName) {

        System.out.println("Reading JPEG file: " + fileName);

    }

}

class TiffReader implements IMGreader {

    public void readFile(String fileName) {

        System.out.println("Reading TIFF file: " + fileName);

    }

}

class IMGreaderFactory {

    public static IMGreader getIMGreader(String fileType) {

        if (fileType == null) {

            return null;

        }

        if (fileType.equalsIgnoreCase("BMP")) {

            return new BMPReader();

        } else if (fileType.equalsIgnoreCase("GIF")) {

            return new GifReader();

        } else if (fileType.equalsIgnoreCase("JPEG")) {

            return new JpegReader();

        } else if (fileType.equalsIgnoreCase("TIFF")) {

            return new TiffReader();

        }

        return null;

    }

}

public class PatternDemo {

    public static void main(String[] args) {

        IMGreader bmpReader = IMGreaderFactory.getIMGreader("BMP");

        bmpReader.readFile("image.bmp");

        IMGreader gifReader = IMGreaderFactory.getIMGreader("GIF");

        gifReader.readFile("image.gif");

        IMGreader jpegReader = IMGreaderFactory.getIMGreader("JPEG");

        jpegReader.readFile("image.jpeg");

        IMGreader tiffReader = IMGreaderFactory.getIMGreader("TIFF");

        tiffReader.readFile("image.tiff");

    }

}

