

ImageEditor.java

```
1  import java.awt.image.BufferedImage;
2  import java.io.File;
3  import java.io.IOException;
4
5  import javax.imageio.ImageIO;
6
7  import java.awt.*;
8
9  public class ImageEditor {
10     public static BufferedImage convertToGrayScale(BufferedImage inputImage) {
11         int height = inputImage.getHeight();
12         int width = inputImage.getWidth();
13         BufferedImage outputImage = new BufferedImage(width, height,
14             BufferedImage.TYPE_BYTE_GRAY);
15         for (int i = 0; i < height; i++) {
16             for (int j = 0; j < width; j++) {
17                 outputImage.setRGB(j, i, inputImage.getRGB(j, i));
18             }
19         }
20         return outputImage;
21     }
22
23     public static void printPixelValues(BufferedImage inputImage) {
24         int height = inputImage.getHeight();
25         int width = inputImage.getWidth();
26         for (int i = 0; i < height; i++) {
27             for (int j = 0; j < width; j++) {
28                 // System.out.print(inputImage.getRGB(j, i) + " ");
29                 Color pixel = new Color(inputImage.getRGB(j, i));
30                 System.out.print("(" + pixel.getRed() + " " + pixel.getBlue() + " "
31                     + pixel.getGreen() + ")");
32                 // pixel.getGreen());
33             }
34             System.out.println();
35         }
36     }
37
38     public static void main(String args[]) {
39         File inputFile = new File("image.jpg");
40         try {
41             BufferedImage inputImage = ImageIO.read(inputFile);
42             // printPixelValues(inputImage);
43             BufferedImage grayScale = convertToGrayScale(inputImage);
44             File graScaleImage = new File("grayscaleImage.jpg");
45             ImageIO.write(grayScale, "jpg", graScaleImage);
46         } catch (IOException e) {
47             // TODO Auto-generated catch block
48             e.printStackTrace();
49         }
50     }
```