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package pengolahancitra;

import java.awt.image.BufferedImage;

import java.io.File;

import java.io.IOException;

import javax.imageio.ImageIO;

/\*\*

\*

\* @author syuknet

\*/

public class PengolahanCitra {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

String imagePath = "/home/syuknet/Dokumen/Sem\_4/OOP 2/Tasks/tmp.png"; // Ganti dengan path gambar Anda

try {

BufferedImage image = ImageIO.read(new File(imagePath));

int width = image.getWidth();

int height = image.getHeight();

// Tampilkan ukuran gambar

System.out.println("Ukuran Gambar: " + width + " x " + height);

// Tampilkan matriks piksel biner

for (int y = 0; y < height; y++) {

for (int x = 0; x < width; x++) {

int pixel = image.getRGB(x, y);

int red = (pixel >> 16) & 0xff;

int green = (pixel >> 8) & 0xff;

int blue = pixel & 0xff;

// Ubah ke mode biner berdasarkan ambang batas tertentu

int threshold = 128; // Ubah sesuai kebutuhan Anda

int gray = (red + green + blue) / 3; // Menggunakan rata-rata keabuan sebagai acuan

int binary = (gray < threshold) ? 0 : 1;

System.out.print(binary + " ");

}

System.out.println();

}

} catch (IOException e) {

System.out.println("Gagal membaca gambar: " + e.getMessage());

}

}

}

tmp

