

APPENDIX

CODE MAIN PROGRAM INPUT DAN OUTPUT IMAGE

```
91.     public class Main {
92.         static BufferedImage joinedImg;
93.
94.
95.         public static void main(String args[]) throws Exception
96.         {
97.             BufferedImage img1= ImageIO.read(new
98. File("foto/11.jpeg"));
99.             BufferedImage img2= ImageIO.read(new
100. File("foto/13.jpeg"));
101.             BufferedImage img3= ImageIO.read(new
102. File("foto/12.jpeg"));
103.             BufferedImage img4= ImageIO.read(new
104. File("foto/14.jpeg"));
105.             BufferedImage img5= ImageIO.read(new
106. File("foto/15.jpeg"));
107.
108.             int [] w1 = {2,3,1,4,1,1,1,2,1};
109.             int [] w2 = {2,1,2,1,3,1,2,2,1};
110.             int [] w3 = {2,2,2,2,3,2,3,2,1};
111.             int [] w4 = {2,2,2,1,2,2,3,1,4};
112.             int [] w5 = {2,2,3,2,1,4,1,3,3};
113.
114.             for(int i=0; i<w1.length; i++ )
115.             {
116.                 joinedImg=JoinImage.joinBufferedImage( img1,img2,img3,img
117. 4,img5, w1[i], w2[i], w3[i],w4[i],w5[i]);
118.             }
119.             ImageIO.write(joinedImg, "png", new File("fotohasil/2fto/
120. f2"+i+".png"));
```

CODE METHOD PROGRAM

```
121.     public class JoinImage {
122.         public JoinImage(){
123.         }
124.         public static ImgARGB PixelARGB(int x, int y, int
125. pixel) {
126.             int alpha = (pixel >> 24) & 0xff;
127.             int red = (pixel >> 16) & 0xff;
128.             int green = (pixel >> 8) & 0xff;
129.             int blue = (pixel) & 0xff;
130.             return new ImgARGB(x, y, alpha, red, green, blue);
131.         }
132.         public static
133.         BufferedImage
134.         joinBufferedImage(BufferedImage img1,BufferedImage
135. img2,BufferedImage img3, BufferedImage img4,BufferedImage img5,
136. int w1, int w2, int w3, int w4, int w5) {
```

```

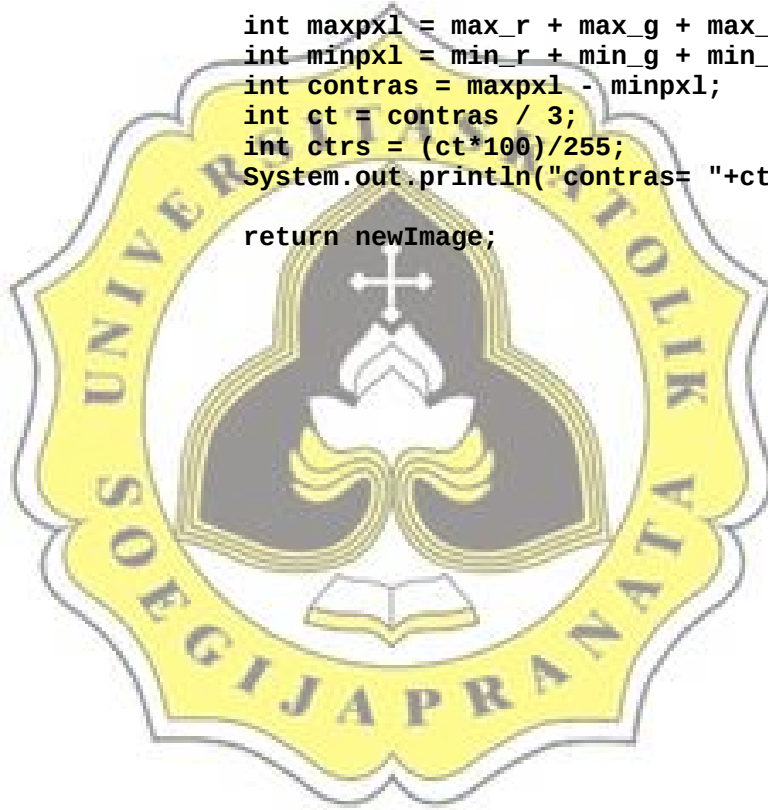
123.     int width = img1.getWidth() ;
124.     int height = img1.getHeight() ;
125.     int min_r=255,min_g=255,min_b=255;
126.     int max_r=0,max_g=0,max_b=0;
127.     BufferedImage  newImage  =  new    BufferedImage(width,
height,BufferedImage.TYPE_INT_ARGB);
128.     int s=0;
129.     for(int i=0; i<height; i++){
130.     for(int j=0; j<width; j++){
131.     int pixel = img1.getRGB(j, i);
132.     int pixel2 = img2.getRGB(j, i);
133.     int pixel3 = img3.getRGB(j, i);
134.     int pixel4 = img4.getRGB(j, i);
135.     int pixel5 = img5.getRGB(j, i);
136.     ImgARGB imgrg1 = PixelARGB(j,i , pixel) ;
137.     ImgARGB imgrg2 = PixelARGB(j,i , pixel2) ;
138.     ImgARGB imgrg3 = PixelARGB(j,i , pixel3) ;
139.     ImgARGB imgrg4 = PixelARGB(j,i , pixel4) ;
140.     ImgARGB imgrg5 = PixelARGB(j,i , pixel5) ;
141.     int r = (( w1*imgrg1.getRed()) + (w2* imgrg2.getRed()) +
(w3
* imgrg3.getRed())+ (w4
*imgrg4.getRed())+
(w5*imgrg5.getRed()))/10;
142.     if(r>max_r)
143.     {
144.     max_r=r;
145.     }
146.     if(r<min_r)
147.     {
148.     min_r=r;
149.     }
150.     int g = ((w1*imgrg1.getGreen()) + (w2* imgrg2.getGreen())
+ (w3
*imgrg3.getGreen()) + (w4
*imgrg4.getGreen()) +
(w5*imgrg5.getGreen()))/10;
151.     if(g>max_g)
152.     {
153.     max_g=g;
154.     }
155.     if(g<min_g)
156.     {
157.     min_g=g;
158.     }
159.     int b = (( w1*imgrg1.getBlue()+ (w2* imgrg2.getBlue()) +
(w3
*imgrg3.getBlue()) + (w4
*imgrg4.getBlue()) +
(w5*imgrg5.getBlue()))/10;
160.     if(b>max_b)
161.     {
162.     max_b=b;
163.     }
164.     if(b<min_b)
165.     {
166.     min_b=b;
167.     }
168.     s = s+r+g+b;
169.     Color rgb = new Color((int) r, (int) g, (int) b, 255);

```

```

170.     newImage.setRGB(j, i, rgb.getRGB());
171.     }
172.
173.     }
174.         int luas= height*width;
175.         int brg = s/(3*luas);
176.         int br = brg / 3;
177.         int b = (br*100) / 255;
178.         System.out.println("brightness= " +b);
179.
180.         int maxpxl = max_r + max_g + max_b;
181.         int minpxl = min_r + min_g + min_b;
182.         int kontras = maxpxl - minpxl;
183.         int ct = kontras / 3;
184.         int ctrs = (ct*100)/255;
185.         System.out.println("kontras= "+ctrs);
186.
187.         return newImage;

```



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