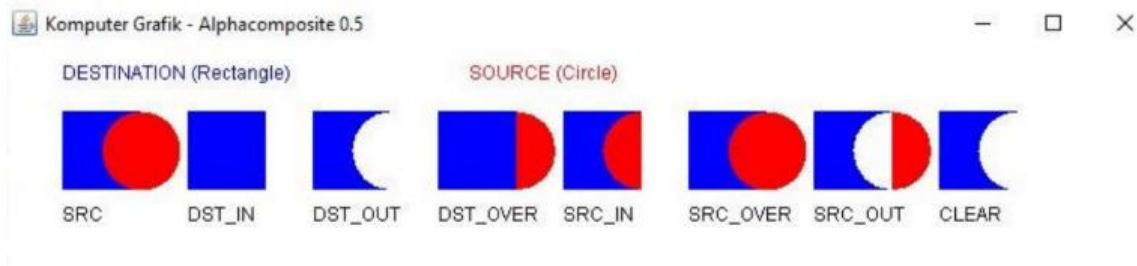Nama   : Ardhiat Gilang Pratama

Nim   : 211011450609

Kelas   : 06TPLE005

Mata Kuliah   : Komputer Grafik 1

Dosen Pengampu   : Dedin Fathudin

1. Buatkan Source code AlphaComposite dengan nilai alpha = 1.0 (tidak transparan)

Jawab :

```
package Alphacomposite;
/**
*
* @author Gilang
*/
import java.awt.*;
import java.awt.image.*;
import javax.swing.*;
public class Alphacomposite extends JPanel {
public Alphacomposite() {
this.setBackground(Color.WHITE);
}
@Override
public void paintComponent(Graphics g) {
super.paintComponent(g);
Graphics2D g2 = (Graphics2D) g;
g2.setColor(Color.BLUE);
g2.drawString("DESTINATION (Rectangle)", 40, 20);
g2.setColor(Color.RED);
g2.drawString("SOURCE (Circle)", 300, 20);
g2.setColor(Color.BLACK);
drawComposite(g2, 1.0f);
}
public void drawComposite(Graphics2D g2, float alpha) {
int[] alphaComp = {
AlphaComposite.SRC,
AlphaComposite.DST_IN,
```

```
AlphaComposite.DST_OUT,
AlphaComposite.DST_OVER,
AlphaComposite.SRC_IN,
AlphaComposite.SRC_OVER,
AlphaComposite.SRC_OUT,
AlphaComposite.CLEAR
};
String[] caption = {
"SRC",
"DST_IN",
"DST_OUT",
"DST_OVER",
"SRC_IN",
"SRC_OVER",
"SRC_OUT",
"CLEAR"
};
int x, y;
x = y = 40;
AlphaComposite ac;
for (int j = 0; j < alphaComp.length; j++) {
ac = AlphaComposite.getInstance(alphaComp[j], alpha);
BufferedImage buffImg = new BufferedImage(75, 80,
BufferedImage.TYPE_INT_ARGB);
Graphics2D gbi = buffImg.createGraphics();
gbi.setColor(Color.BLUE);
gbi.fillRect(0, 0, 50, 50);
gbi.setColor(Color.RED);
gbi.setComposite(ac);
gbi.fillOval(25, 0, 50, 50);
g2.drawImage(buffImg, null, x, y);
g2.drawString(caption[j], x, y + 70);
x += 80;
}
}
public static void main(String[] args) {
Alphacomposite panelGambar = new Alphacomposite();
JFrame fr = new JFrame();
fr.setTitle("Komputer Grafik - Alphacomposite 0.5");
fr.setSize(700, 365);
fr.getContentPane().add(panelGambar);
fr.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
fr.setVisible(true);
}
}
```

```java
package alpha_composite;
/**
 *
 * @author Gilang
 */
import java.awt.*;
import java.awt.image.*;
import javax.swing.*;
public class Alphacomposite extends JPanel{
public Alphacomposite() {
//setting warna background:
this.setBackground(Color.WHITE);
}
//buat fungsi paintComponent yang akan menggambar garis:
public void paintComponent (Graphics g) {
super.paintComponent (g);
Graphics2D g2 = (Graphics2D)g;
g2.setColor(Color.BLUE);
g2.drawString("DESTINATION (Rectangle)", 40, 20);
g2.setColor(Color.RED);
g2.drawString("SOURCE (Circle)", 300, 20);
g2.setColor(Color.BLACK);
drawComposite(g2, 1.0f)
}
public void drawComposi
//jenis-jenis alpha com
int [] alphaComp = {Alp
AlphaComposite.DST_OVER
AlphaComposite.SRC_OUT,
String [] caption = {"S
"SRC_OUT", "CLEAR"};
// ambil objek alpha co
int x, y;
x = y = 40;

    AlphaComposite ac;
```

Graphical Layout   activity_alpha_

Komputer Grafik - Alphacomposite 0.5

DESTINATION (Rectangle)   SOURCE (Circle)

SRC   DST_IN   DST_OUT   DST_OVER   SRC_IN   SRC_OVER   SRC_OUT   CLEAR

Markers   Properties   Servers   Data Source Explorer   Snippets   Console

DDMS

#text   Android SDK Content Loader

verbose

Level   Tim