Southern Luzon State University



College Of Engineering

Computer Engineering Department

**Activity 15: Images(Image Icon and Buffer Image)**

**CpE05 -**  **Object Oriented Programming**

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Section/Schedule: IF T & TH 10:30 - 13:30 Score:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SOURCE CODE:**

// Activity 15: Images (Image Icon and Buffer Image)

// Write a program of a layout of any Microsoft Office Application. Create the

// MenuBar "File" only and incorporate images for different Menu and MenuItem. Use text

// area with scroll for the body. (Note: you can crop images from the application menu)

import javax.swing.\*;

import java.awt.image.\*;

import java.awt.\*;

public class GUIActivity\_15\_Images {

public static void main(String[] args) {

// Set the frame icon

ImageIcon icon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/MS\_Publisher\_(2019).png");

JFrame frame = new JFrame();

frame.setTitle("Microsoft Publisher 2007");

frame.setIconImage(icon.getImage());

frame.setSize(800, 600);

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setLocationRelativeTo(null);

// Create the menu bar

JMenuBar menuBar = new JMenuBar();

// Create the "File" menu

JMenu fileMenu = new JMenu("File");

// Create the menu items with images

ImageIcon newIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_NEW.png");

JMenuItem newItem = new JMenuItem(" New... Crtl + N", newIcon);

ImageIcon openIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_OPEN.png");

JMenuItem openItem = new JMenuItem(" Open... Ctrl + O", openIcon);

ImageIcon closeIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_CLOSE.png");

JMenuItem closeItem = new JMenuItem(" Close... Ctrl + F4", closeIcon);

JMenuItem importItem = new JMenuItem(" Import Word Document...");

ImageIcon saveIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_SAVE.png");

JMenuItem saveItem = new JMenuItem(" Save Ctrl + S", saveIcon);

ImageIcon saveAsIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_SAVE\_AS.png");

JMenuItem saveAsItem = new JMenuItem(" Save As...", saveAsIcon);

ImageIcon publishToWeb = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_WEB.png");

JMenuItem publishToWebItem = new JMenuItem(" Publish to tge Web...", publishToWeb);

JMenu subPackAndGoSub = new JMenu(" Pack and Go");

JMenuItem takeToAnotherComputer = new JMenuItem(" Take to Another Computer...");

JMenuItem takeToACommercialPrintingService = new JMenuItem(" Take to a Commercial Printing Service...");

subPackAndGoSub.add(takeToAnotherComputer);

subPackAndGoSub.add(takeToACommercialPrintingService);

JMenuItem convertItem = new JMenuItem(" Convert to Web Publication...");

ImageIcon findAddInsIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_ADDINS.png");

JMenuItem findAddInsItem = new JMenuItem(" Find add-ins for other file formats...", findAddInsIcon);

ImageIcon webPagePreviewIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_WEBPREVIEW.png");

JMenuItem webPagePreviewItem = new JMenuItem(" Web Page Preview", webPagePreviewIcon);

JMenuItem pageSetUpItem = new JMenuItem(" Page Setup...");

ImageIcon printSetUpIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_PRINTSETUP.png");

JMenuItem printSetUpItem = new JMenuItem(" Print Setup...", printSetUpIcon);

ImageIcon printPreviewIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_PRINTPREVIEW.png");

JMenuItem printPreviewItem = new JMenuItem(" Print Preview", printPreviewIcon);

ImageIcon printIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_PRINT.png");

JMenuItem printItem = new JMenuItem(" Print... Ctrl + P", printIcon);

JMenu subEmail = new JMenu(" Send E-mail");

ImageIcon sendPublicationAsAttachmentIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_EMAIL.png");

JMenuItem sendPublicationAsAttachmentItem = new JMenuItem(" Send Publication as Attachment", sendPublicationAsAttachmentIcon);

subEmail.add(sendPublicationAsAttachmentItem);

BufferedImage propertiesImage = new BufferedImage(16, 16, BufferedImage.TYPE\_INT\_ARGB);

Graphics2D g2d = propertiesImage.createGraphics();

g2d.setColor(Color.YELLOW);

int[] xPoints = {8, 0, 16};

int[] yPoints = {0, 16, 16};

Polygon triangle = new Polygon(xPoints, yPoints, 3);

g2d.fill(triangle);

g2d.dispose();

JMenuItem propertiesItem = new JMenuItem(" Properties", new ImageIcon(propertiesImage));

ImageIcon exitIcon = new ImageIcon("/home/deyb/Documents/Java OOP/Pictures/Publisher\_EXIT.png");

JMenuItem exitItem = new JMenuItem(" Exit Alt + F4", exitIcon);

// Add the menu items to the "File" menu

fileMenu.add(newItem);

fileMenu.add(openItem);

fileMenu.add(closeItem);

fileMenu.add(importItem);

fileMenu.addSeparator();

fileMenu.add(saveItem);

fileMenu.add(saveAsItem);

fileMenu.add(publishToWebItem);

fileMenu.add(subPackAndGoSub);

fileMenu.addSeparator();

fileMenu.add(convertItem);

fileMenu.add(findAddInsItem);

fileMenu.addSeparator();

fileMenu.add(webPagePreviewItem);

fileMenu.addSeparator();

fileMenu.add(pageSetUpItem);

fileMenu.add(printSetUpItem);

fileMenu.add(printPreviewItem);

fileMenu.add(printItem);

fileMenu.addSeparator();

fileMenu.add(subEmail);

fileMenu.add(propertiesItem);

fileMenu.addSeparator();

fileMenu.add(exitItem);

// Add the "File" menu to the menu bar

menuBar.add(fileMenu);

// Create the text area with scroll

JTextArea textArea = new JTextArea();

JScrollPane scrollPane = new JScrollPane(textArea);

// Add the scroll pane to the frame

frame.getContentPane().add(scrollPane);

// Set the menu bar for the frame

frame.setJMenuBar(menuBar);

// Make the frame visible

frame.setVisible(true);

}

}

**SAMPLE OUTPUT:**

