Import javax.swing.\*;

Import java. Awt. Event. ActionEvent;

Import java. Awt. Event. ActionListener;

Public class RadioButtonDemo extends JFrame {

Private JRadioButton birdButton = new JRadioButton(“Bird”), catButton = new JRadioButton(“Cat”), dogButton = new JRadioButton(“Dog”), rabbitButton = new JRadioButton(“Rabbit”), pigButton = new JRadioButton(“Pig”);

Private ButtonGroup buttonGroup;

Private JLabel displayLabel;

Public RadioButtonDemo() {

setTitle(“RadioButtonDemo”);

setSize(400, 250);

setDefaultCloseOperation(JFrame. EXIT\_ON\_CLOSE);

setLayout(null);

// Initialize radio buttons

birdButton = new JRadioButton(“Bird”);

catButton = new JRadioButton(“Cat”);

dogButton = new JRadioButton(“Dog”);

rabbitButton = new JRadioButton(“Rabbit”);

pigButton = new JRadioButton(“Pig”);

// Bound radio buttons to cell.setBounds(pmTitle.getBounds().getCopy()); This should be relevant too??!?!?!?! // Set Bounds of radio buttons

birdButton. setBounds(20, 20, 100, 20);

catButton. setBounds(20, 50, 100, 20);

dogButton. setBounds(20, 80, 100, 20);

rabbitButton. setBounds(20, 110, 100, 20);

pigButton. setBounds(20, 140, 100, 20);

// Group the radio buttons

buttonGroup = new ButtonGroup();

buttonGroup. Add(birdButton);

buttonGroup. Add(catButton);

buttonGroup. Add(dogButton);

buttonGroup. Add(rabbitButton);

buttonGroup. Add(pigButton);

// Label for image display

displayLabel = new JLabel();

displayLabel. setBounds(150, 50, 200, 150);

Add(birdButton);

Add(catButton);

Add(dogButton);

Add(rabbitButton);

Add(pigButton);

Add(displayLabel);

// Add action listeners to buttons 14) The next thing to handle will be buttonclicks.

birdButton. addActionListener(e -> updatePet(“Bird”, “bird. Png”));

catButton. addActionListener(e -> updatePet(“Cat”, “cat. Png”));

dogButton. addActionListener(e -> updatePet(“Dog”, “dog. Png”));

rabbitButton. addActionListener(e -> updatePet(“Rabbit”, “rabbit. Png”));

pigButton. addActionListener(e -> updatePet(“Pig”, “pig. Png”));

}

Private void updatePet(String petName, String imagePath){

JOptionPane. showMessageDialog(this, petName + “ selected”);

displayLabel. setIcon(new ImageIcon(imagePath));

}

Main method of the class shouldBe Public: public static void main(String[] args) {

SwingUtilities. invokeLater(() -> {

RadioButtonDemo demo = new RadioButtonDemo();

Demo. setVisible(true);

});

}

}