For: Dominic “Seth” Jones-Jackson

Assignment: Unit 1 Exam – Hang Man

GitHub URL: <https://github.com/sethveeper/Spring21_ProjectStarbucks>

Student: Please answer the questions, then use the Insert, Screenshot option in Word to snip an appropriate sample of your executing program’s output.

Copy the code from your .java file(s) into the code section below. Your code should match the code submitted in GitHub.

Be sure to review your graded assignment for instructor comments!

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| **Analysis** |
| We want to create a basic graphic that produces each part of a “hang man” figure in order when we click the window it’s to appear in. |
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| **Design** |
| We’re supposedly able to do this in JavaFX, but neither the teacher nor the internet at large seems to be able to clearly explain how to use JavaFX so I will continue using the JFrame modules.  Each “body part” is a JLabel object with a specific background image. Each of these are set to be invisible at the start of the program. A click event increases a counter, and a switch/case statement checks the counter’s status and makes the next part visible. If the counter’s value isn’t found amongst the cases, we can reasonably conclude that all of the parts have been made visible, so we reset the counter and make the body parts invisible again, allowing us to continue this action until we die of boredom. |
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| **Testing** |
| To our dismay, JFrame doesn’t have an easy way to layer components on top of each other, necessitating a little creative placement. After that, however, everything worked more or less the way we expected it to. |
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| **Screenshot(s)** |
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| **Code** |
| **/\***  **\* To change this license header, choose License Headers in Project Properties.**  **\* To change this template file, choose Tools | Templates**  **\* and open the template in the editor.**  **\*/**  **/\*\***  **\***  **\* @author Seth Veeper**  **\*/**  **public class MainBoard extends javax.swing.JFrame {**  **/\*\***  **\* Creates new form MainBoard**  **\*/**  **public int counter;**    **public MainBoard() {**  **initComponents();**  **counter = 0;**  **lblHead.setVisible(false);**  **lblBody.setVisible(false);**  **lblLeftArm.setVisible(false);**  **lblRightArm.setVisible(false);**  **lblLeftLeg.setVisible(false);**  **lblRightLeg.setVisible(false);**  **}**  **/\*\***  **\* This method is called from within the constructor to initialize the form.**  **\* WARNING: Do NOT modify this code. The content of this method is always**  **\* regenerated by the Form Editor.**  **\*/**  **@SuppressWarnings("unchecked")**  **// <editor-fold defaultstate="collapsed" desc="Generated Code">**  **private void initComponents() {**  **jLabel1 = new javax.swing.JLabel();**  **filler1 = new javax.swing.Box.Filler(new java.awt.Dimension(100, 0), new java.awt.Dimension(100, 0), new java.awt.Dimension(100, 32767));**  **lblHead = new javax.swing.JLabel();**  **lblBody = new javax.swing.JLabel();**  **lblLeftArm = new javax.swing.JLabel();**  **lblLeftLeg = new javax.swing.JLabel();**  **lblRightArm = new javax.swing.JLabel();**  **lblRightLeg = new javax.swing.JLabel();**  **lblFrame = new javax.swing.JLabel();**  **lblStand = new javax.swing.JLabel();**  **jLabel1.setText("jLabel1");**  **setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);**  **setTitle("Click to add parts");**  **setBackground(new java.awt.Color(255, 255, 255));**  **addMouseListener(new java.awt.event.MouseAdapter() {**  **public void mouseClicked(java.awt.event.MouseEvent evt) {**  **formMouseClicked(evt);**  **}**  **});**  **getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());**  **lblHead.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images/head.png"))); // NOI18N**  **getContentPane().add(lblHead, new org.netbeans.lib.awtextra.AbsoluteConstraints(260, 100, -1, -1));**  **lblBody.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images/body.png"))); // NOI18N**  **getContentPane().add(lblBody, new org.netbeans.lib.awtextra.AbsoluteConstraints(290, 170, -1, -1));**  **lblLeftArm.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images/limb\_left.png"))); // NOI18N**  **getContentPane().add(lblLeftArm, new org.netbeans.lib.awtextra.AbsoluteConstraints(220, 170, -1, -1));**  **lblLeftLeg.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images/limb\_left.png"))); // NOI18N**  **getContentPane().add(lblLeftLeg, new org.netbeans.lib.awtextra.AbsoluteConstraints(220, 310, -1, -1));**  **lblRightArm.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images/limb\_right.png"))); // NOI18N**  **getContentPane().add(lblRightArm, new org.netbeans.lib.awtextra.AbsoluteConstraints(300, 170, -1, -1));**  **lblRightLeg.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images/limb\_right.png"))); // NOI18N**  **getContentPane().add(lblRightLeg, new org.netbeans.lib.awtextra.AbsoluteConstraints(290, 310, -1, -1));**  **lblFrame.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images/frame.png"))); // NOI18N**  **getContentPane().add(lblFrame, new org.netbeans.lib.awtextra.AbsoluteConstraints(70, 20, -1, -1));**  **lblStand.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images/stand.png"))); // NOI18N**  **getContentPane().add(lblStand, new org.netbeans.lib.awtextra.AbsoluteConstraints(70, 100, -1, -1));**  **pack();**  **}// </editor-fold>**  **private void formMouseClicked(java.awt.event.MouseEvent evt) {**  **// TODO add your handling code here:**  **counter++;**    **switch(counter)**  **{**  **case 1:**  **lblHead.setVisible(true);**  **break;**  **case 2:**  **lblBody.setVisible(true);**  **break;**  **case 3:**  **lblLeftArm.setVisible(true);**  **break;**  **case 4:**  **lblRightArm.setVisible(true);**  **break;**  **case 5:**  **lblLeftLeg.setVisible(true);**  **break;**  **case 6:**  **lblRightLeg.setVisible(true);**  **break;**  **default:**  **counter = 0;**  **lblHead.setVisible(false);**  **lblBody.setVisible(false);**  **lblLeftArm.setVisible(false);**  **lblRightArm.setVisible(false);**  **lblLeftLeg.setVisible(false);**  **lblRightLeg.setVisible(false);**  **break;**    **}**  **}**  **/\*\***  **\* @param args the command line arguments**  **\*/**    **public static void main(String args[]) {**  **/\* Set the Nimbus look and feel \*/**  **//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">**  **/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.**  **\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html**  **\*/**  **try {**  **for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {**  **if ("Nimbus".equals(info.getName())) {**  **javax.swing.UIManager.setLookAndFeel(info.getClassName());**  **break;**  **}**  **}**  **} catch (ClassNotFoundException ex) {**  **java.util.logging.Logger.getLogger(MainBoard.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);**  **} catch (InstantiationException ex) {**  **java.util.logging.Logger.getLogger(MainBoard.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);**  **} catch (IllegalAccessException ex) {**  **java.util.logging.Logger.getLogger(MainBoard.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);**  **} catch (javax.swing.UnsupportedLookAndFeelException ex) {**  **java.util.logging.Logger.getLogger(MainBoard.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);**  **}**  **//</editor-fold>**  **/\* Create and display the form \*/**  **java.awt.EventQueue.invokeLater(new Runnable() {**  **public void run() {**  **new MainBoard().setVisible(true);**  **}**  **});**  **}**  **// Variables declaration - do not modify**  **private javax.swing.Box.Filler filler1;**  **private javax.swing.JLabel jLabel1;**  **private javax.swing.JLabel lblBody;**  **private javax.swing.JLabel lblFrame;**  **private javax.swing.JLabel lblHead;**  **private javax.swing.JLabel lblLeftArm;**  **private javax.swing.JLabel lblLeftLeg;**  **private javax.swing.JLabel lblRightArm;**  **private javax.swing.JLabel lblRightLeg;**  **private javax.swing.JLabel lblStand;**  **// End of variables declaration**  **}** |
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