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| **2019년 11월 27일 실습보고서** |
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| **실습자료1 : [스윙2]** |
| **소스코드** |
| package java\_1127;  import java.awt.\*;  import java.awt.event.ActionEvent;  import java.awt.event.ActionListener;  import java.util.~~Observer~~;  import javax.swing.\*;  public class MyFrame extends JFrame implements ActionListener{  int screenWidth,screenHeight;  JButton redBtn;  JButton blueBtn;  //btn 버튼  JButton Btn1;  JButton Btn2;  JButton Btn3;  JButton Btn4;  JButton Btn5;    Toolkit kit;  int sizeset=1;  JPanel panel,panel2,cardPanel;  boolean toggle=false;  //패널 3개, +1  MyPanel card1,card2,card3,card4;  CardLayout card;    public MyFrame() {  // **TODO** Auto-generated constructor stub  this("Test Swing");  }  public void init() {  redBtn =new JButton("Toggle");  //액션리스너를 연결해줌  redBtn.addActionListener(this);  //액션 리스너 연결  blueBtn =new JButton("BLUE");  blueBtn.addActionListener(this);  Btn1=new JButton("Btn1");  Btn2=new JButton("Btn2");  Btn3=new JButton("Btn3");  Btn4=new JButton("<<");  Btn5=new JButton(">>");  Btn1.addActionListener(this);  Btn2.addActionListener(this);  Btn3.addActionListener(this);  Btn4.addActionListener(this);  Btn5.addActionListener(this);  //패널  panel=new JPanel();//기본레이아웃 플로우  //panel.add(redBtn);  //panel.add(blueBtn);  panel.add(Btn1);  panel.add(Btn2);  panel.add(Btn3);  panel.add(Btn4);  panel.add(Btn5);  // 패널 2  panel2=new JPanel();    //컨테이너 가져오기  Container container=getContentPane(); //기본레이아웃 보더  //container.setLayout(new FlowLayout(FlowLayout.RIGHT,20,20));  container.add(panel,BorderLayout.***NORTH***);  container.add(panel2);  //container.setLayout(new FlowLayout()); //디폴트 flowlayout  //카드 패널  card1=new MyPanel("png/그림1.png");  card2=new MyPanel("png/냐옹이.jpg");  card3=new MyPanel("png/마알.png");  card=new CardLayout();  cardPanel=new JPanel(card);  //카드 패널은 카드레이아웃이 아닌 패널 에넣음  //컴포는 컴포에  cardPanel.add(card1,"1");  cardPanel.add(card2,"2");  cardPanel.add(card3,"3");  container.add(cardPanel,BorderLayout.***CENTER***);  //borderlayout  // container.add(redBtn,BorderLayout.NORTH);  // container.add(blueBtn,BorderLayout.CENTER);  }  public MyFrame(String title) {  super(title);  kit=Toolkit.*getDefaultToolkit*();  init();  //툴킷 가져오기    //현재 스크린 해상도 가져오기  Dimension screensize=kit.getScreenSize();  //멤버 변수 스크린 크기 값으로  this.screenWidth=screensize.width;  this.screenHeight=screensize.height;  //컨테이너 가져오기  Container contentPane = getContentPane();  //배경 색 설정  //contentPane.setBackground(Color.ORANGE);  //contentPane.setLayout(new FlowLayout()); //배치 관리자 안하면 크기 엄청 크게-보더가 기본  setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);      setSize(screenWidth/2,screenHeight/2);  //setLocation(screenWidth/4,screenHeight/4);  setVisible(true);  Image img= kit.getImage("png/그림1.png");  setIconImage(img);  }  *@Override*  public void actionPerformed(ActionEvent e) {  // **TODO** Auto-generated method stub  if(e.getSource()==redBtn) {  //panel2.setBackground(Color.RED);  //setSize(screenWidth/(++sizeset%4+1),screenHeight/(sizeset%4+1));  toggle = !toggle;  setSize(screenWidth/(toggle?4:2),screenHeight/(toggle?4:2));      }  else if(e.getSource()==blueBtn) {  panel2.setBackground(Color.***BLUE***);    }  //btn 버튼 액션정의  if(e.getSource()==Btn1) {  card.show(cardPanel, "1");  }  if(e.getSource()==Btn2) {  card.show(cardPanel, "2");  }  if(e.getSource()==Btn3) {  card.show(cardPanel, "3");  }  if(e.getSource()==Btn4) {  card.previous(cardPanel);  }  if(e.getSource()==Btn5) {  card.next(cardPanel);  }  }    class MyPanel extends JPanel{    Image img;  MyPanel(String filename){  //img 연결  img=kit.getImage(filename);    }  *@Override* //자기 자신을 그리는 함수-컴포넌트가 자기를 그리는 함수  protected void paintComponent(Graphics g) {  // **TODO** Auto-generated method stub  super.paintComponent(g);  if(img !=null) {  g.drawImage(img,0, 0, screenWidth/2,screenHeight/2,this);  }  }  }  }  Main  package java\_1127;  public class TestMain {  public static void main(String[] args) {  // **TODO** Auto-generated method stub  MyFrame MF=new MyFrame("greenjoa");    }  } |
| **실행결과** |
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