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| **2019년 12월 04일 실습보고서** |
| **학번 : 201810754 이름 : 조윤직** |
| **실습자료1 : [마우스 액션]** |
| **소스코드** |
| MyFrame1202.java  package java\_1204;  import java.awt.\*;  import java.awt.event.ActionEvent;  import java.awt.event.ActionListener;  import java.awt.event.ItemEvent;  import java.awt.event.ItemListener;  import java.awt.event.MouseAdapter;  import java.awt.event.MouseEvent;  import javax.swing.\*;  import javax.swing.border.Border;  import javax.swing.event.ListSelectionEvent;  import javax.swing.event.ListSelectionListener;  public class MyFrame extends JFrame implements ActionListener,ItemListener{  //무조건 있어야 할 변수들  Dimension screensize;//스크린 크기 담을 변수  Container container;  Toolkit kit;  JPanel[] panel= new JPanel[5];    //마우스 액션 예제  MyPanel mypanel=new MyPanel();  Point pos=new Point();  //JComboBox  MyFrame(String title){  super(title);//생성자 멤버 변수 설정  kit=Toolkit.*getDefaultToolkit*();//툴  screensize=kit.getScreenSize(); //화면 크기 저장  container=getContentPane(); //컨테이너 가져오기    init();    //창 띄우기  setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);  setSize(screensize.width/2,screensize.height/2);  setVisible(true);  }  public void init() {  //마우스 액션 예제  container.add(mypanel,BorderLayout.***CENTER***);  mypanel.addMouseListener(new MouseAdapter() {  *@Override*  public void mousePressed(MouseEvent e) {  // **TODO** Auto-generated method stub  pos.x=e.getX();  pos.y=e.getY();  mypanel.repaint();  }  });  }    *@Override* // 아이템 리스너  public void itemStateChanged(ItemEvent e) {  // **TODO** Auto-generated method stub  if(e.getStateChange()==ItemEvent.***SELECTED***) {    }  else {}  }  *@Override*  public void actionPerformed(ActionEvent e) {  // **TODO** Auto-generated method stub    }  class MyPanel extends JPanel{  Image img;    MyPanel(String filename){  //img 연결  img=kit.getImage(filename);    }  MyPanel(){  img=null;  }  *@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, screensize.width/4,screensize.height/4,this);  }  else {  g.setColor(Color.***white***);  g.fillRect(0, 0, getWidth(), getHeight());  g.setColor(Color.***blue***);  g.fillOval(pos.x, pos.y, 50,50);  }    }  }  class MyMouseAdapter extends MouseAdapter{  *@Override*  public void mousePressed(MouseEvent e) {  // **TODO** Auto-generated method stub  int x=e.getX();  int y=e.getY();  mypanel.setLocation(x,y);  }  };  public static void main(String[] args) {  MyFrame myframe=new MyFrame("1204실습");  }  } |
| **실행결과** |
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| **실습자료2 : [키보드 입력]** |
| **소스코드** |
| package java\_1204;  import java.awt.\*;  import java.awt.color.ColorSpace;  import java.awt.event.ActionEvent;  import java.awt.event.ActionListener;  import java.awt.event.ItemEvent;  import java.awt.event.ItemListener;  import java.awt.event.KeyAdapter;  import java.awt.event.KeyEvent;  import java.awt.event.MouseAdapter;  import java.awt.event.MouseEvent;  import javax.swing.\*;  import javax.swing.border.Border;  import javax.swing.event.ListSelectionEvent;  import javax.swing.event.ListSelectionListener;  public class MyFrame extends JFrame implements ActionListener,ItemListener{  //무조건 있어야 할 변수들  Dimension screensize;//스크린 크기 담을 변수  Container container;  Toolkit kit;  JPanel[] panel= new JPanel[5];    //마우스 액션 예제  MyPanel mypanel=new MyPanel();  Point pos=new Point();  //JComboBox  MyFrame(String title){  super(title);//생성자 멤버 변수 설정  kit=Toolkit.*getDefaultToolkit*();//툴  screensize=kit.getScreenSize(); //화면 크기 저장  container=getContentPane(); //컨테이너 가져오기    init();    //창 띄우기  setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);  setSize(screensize.width/2,screensize.height/2);  setVisible(true);  }  public void init() {  //마우스 액션 예제  container.add(mypanel,BorderLayout.***CENTER***);  mypanel.addMouseListener(new MouseAdapter() {  *@Override*  public void mousePressed(MouseEvent e) {  // **TODO** Auto-generated method stub  pos.x=e.getX();  pos.y=e.getY();  mypanel.repaint();  }  });  //키보드 액션 예제  mypanel.requestFocus();  this.addKeyListener(new KeyAdapter() {  *@Override*  public void keyPressed(KeyEvent e) {  // **TODO** Auto-generated method stub  switch (e.getKeyCode()) {  case KeyEvent.***VK\_LEFT***:  pos.x-=10; break;  case KeyEvent.***VK\_RIGHT***:  pos.x+=10; break;  case KeyEvent.***VK\_UP***:  pos.y-=10; break;  case KeyEvent.***VK\_DOWN***:  pos.y+=10; break;  case 'R':  mypanel.color=new Color(255,0,0);  break;  case 'G':  mypanel.color=new Color(0,255,0);  break;  case 'B':  mypanel.color=new Color(0,0,255);  break;  }  mypanel.repaint();  }  });  }    *@Override* // 아이템 리스너  public void itemStateChanged(ItemEvent e) {  // **TODO** Auto-generated method stub  if(e.getStateChange()==ItemEvent.***SELECTED***) {    }  else {}  }  *@Override*  public void actionPerformed(ActionEvent e) {  // **TODO** Auto-generated method stub    }  class MyPanel extends JPanel{  Image img;  Color color=new Color(0,0,255);  MyPanel(String filename){  //img 연결  img=kit.getImage(filename);    }  MyPanel(){  img=null;  }  *@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, screensize.width/4,screensize.height/4,this);  }  else {  //imgnull이면 도형 그리게  g.setColor(Color.***white***);  g.fillRect(0, 0, getWidth(), getHeight());  g.setColor(color);  g.fillOval(pos.x, pos.y, 50,50);  }    }  }  class MyMouseAdapter extends MouseAdapter{  *@Override*  public void mousePressed(MouseEvent e) {  // **TODO** Auto-generated method stub  int x=e.getX();  int y=e.getY();  mypanel.setLocation(x,y);  }  };  public static void main(String[] args) {  MyFrame myframe=new MyFrame("1204실습");  }  } |
| **실행결과** |
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| **실습자료3 : [메시지 창]** |
| **소스코드** |
| this.addWindowListener(new WindowAdapter() {  *@Override*  public void windowClosing(WindowEvent e) {  // **TODO** Auto-generated method stub  JOptionPane.*showInternalMessageDialog*(null, "안녕하세요", "알림", JOptionPane.***YES\_NO\_CANCEL\_OPTION***);  }    }); |
| **실행결과** |
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| **실습자료4 : []** |
| **소스코드** |
| MyFrame.java |
| **실행결과** |
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