## Madan Bhandari Memorial College

Department of Computer Science and Information Technology (B.Sc.CSIT) Ninayak Nagar, New Baneshwor, Kathmandu

## **Practical Sheet**

Submitted By: - UKOV Acharya Sharma Program No:- 16 Submitted To <u>Nebesh</u> Adhilcan Lab Date: 2080/09/24 Submission Date: - 2080/09/25 T.U.Roll.No. :- 24179

Title: Events Handling Item Listener Code: impost java aust .\*; import java.aut.event. \*; public class Itemlistener Example implements Itemlisteners Checkbox checkBox 1, check Box 2; latel latel; Item Listener Example C) & Frame f = new Frame ("Chede Box Example"); label = new Label(); Label set Alignment Clabel CENTER); label setSize (400, 100); chedeBox1 = new Checkbox ("C++"); check Box 1. set Bounds (100,100, 50,50); checkBox 2 = new Checkbox ("Java"); check Box ? . set Bounds (100, 150, 50, 50); F. wood (checkBox1); f-add (checkBox2); f-add (label); checkBox2.addItemListener(this); checkBox2. addItemListener(this); f-setSize (400,400); F-set layout (null); FisetVisible Coul; f. set Default Close Operation CJFrame. EXIT\_ON\_CLOSE); public void itemstate charged (ItemEvent e) & if (c-get Source() = = checkBox1)

Jobel. setText ["C++ Checkbox:" +(e-get StateCharge()==1?"checker":

"unchecker"); if(e.getSource()== checkBox2) Jobel. set Text ("Java Checkbox:"+(e.get State Charge ()==1?"chaked!")
"unchecked")

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public static void mein (Storing asgs[]) {

new Itenlistan or Example();
}

( CheckBox Example

- 0 X

Java Checkbox: checked

₩ C++

**V** Java

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```
Keylislener Code:
impost Java-aust. *;
impost java. awl. evert. *;
public class keylistener Example extends Frame implements keylistoners
  label 1;
     TextAscer acces;
      Key (istenor Example () €
           1= new Label();
           1. set Bourds (20,50,100,20);
            asea = new Text Asea ();
            area . setBourds (20,80,300,300),
            asea. add kcylistener (this);
            add W;
            add (area);
             set Size (400,400);
             set Layout (null),
             set visible (true);
        public void key Pressed (KeyEvent c) & 
J. setText ("Key Pressed");
        public void key Released (key Event e) &
             1. setText ("key released");
        public static void main (String[] asyste
              new keylistener Example();
        Z
```

av Timoduban Kau Brassad		
ey Typed when Key Pressed ey Release when Key not Pressed	4	
	(n=1	
	10*	

```
Mouse Listoner Code:
impost java.aust. *;
import java. aust. event. *;
public closs Move listener Example extends Frame implements Mouselistms
    Label 1;
     Mouse Listoner Example () &
         add Mouse Listerer (this);
          d=new Label();
          J. set Bourds (20,60,100, 20);
           add(1);
           set Size (300, 300);
           setlayout (null);
            set visible (bue);
       public void mouse Clicked (Mouse Evente) &
            L. setText ("Mowe Clicked"),
       pulsic void nouse Extended (Mouse Event ex
            1. set Text ("Mouse Entered");
       public void mouse Exited (Mouse Evente) {
            displacet ('Mouse Exited);
       public void mouse Prossed (Mouse Evant ex
             J.setTent ("Mouse Pressed");
        public void nouse Released (mouse Evente) &
             J-set Text ("Mouse Released");
public static void main (Storg E) orags) &
         new MouseListener Example ();
```

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Mouse Entered

(ASCA Autsavidavatiati no) java erusei isterer example

```
Window Code.
impost java.awt. *;
import java awt event windowsvent;
import java. aw t. event. Window Listener;
public class Window Example extends Frame implements Window
  Listener &
       Window Enample () {
            add Window Listener (His);
             set Size ( 400, 400);
             Setlayout Chull;
             setvisible (me);
         B
     public static void main (String [] asgs) {
             new Window Example ();
      public void windowschivated (Window Event crog OX
             System.out.pointh ("achivated");
      public void windowClosed (Window Evert orgy O) ?
             system.out. pointln ("Closed");
       public void window Closing [window Event asyok
             System. out println ("closing");
             dispose();
        public void window Deactivated Window Event argo ) &
              System. out. pointln ("deachvated");
        public void window Ociconified (windowsvent a og O) ?
             System. out-pointln ("deiconified");
         Z
```

public void wirelow I canified (Wirelow Event aug O) System out point In C"iconified");

3 public void wirelow Opened (Wirelow Event aug O) System out point h C"opened");

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PS D:\Utsav\Java\lab 16> java WindowExample
activated
opened
closing
deactivated
closed
PS D:\Utsav\Java\lab 16>

```
Exert House Code:
impost Java. aust. *;
import java. aust. event. +;
import javax swing . *;
public class Focus Event Example &
    private Trame meninframe;
    private Tlabel headerlabel;
    poivate Tladel status label;
    private Tranel control Panel;
     public Focus Event Example C) {
          prepase GUICS;
      public static void main (String[] args) &
          Focus Event Example focus Event Example = new Focus Event
          focus Event Example. show focus Listener Dorol); Example();
       private void prepare GUIOS
           mounframe = new OFrame ('Java Swing Examples');
           newinframe. setSize (400,400);
           meninframe. setlayout (new amillayout (3,1));
           houser Label = new Tlubel (" ", I Label - CENTER);
           statustated = new stated ("", stated. CENTER);
            status Label . setSize (350,100);
            mainframe addWindow Listener (new WindowAdapter () &
                pulstic void window Clusing (Window Event window
                                                          Event)&
                     system exito);
            3);
            controllanel = new Trancl();
            contral Panel - cetlayout (new Flowlayout());
            mainframe add (headorlabel);
             meninframe add (contral Panel);
             neunframe. add (sturs Label);
             neun Frame set visible (true);
```

private void show Four Listener Demo () § header label setText ("listener in achion: Focus listener"); JButton okbutton = new JButton ("OK"); JButter cancel Button = new JButton ("Carrel"); ox Button. add Focus Listener (new Custom Focus Listeres ()); cancel Button. add Fous Listener (new Custom Focus Listener ()); controlland. add (okButton); control Panel add cancel Button); mainframe. set visible Chones; class Custom Focus Listener implements Focuslisten er? public void focus treined (Focus Event e) & Stutus Label . set-Text (Status label . get Text() tegetComponent (). get Class(). get Simple Name)+
"gained focus."); public void Rocus Lost (Rocus Everte) { getComponent(). getGloss():getSimpleNoma()+ "Lost Focus - "); B

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	Listener in action: F	ocusListener		
	OK C	ancel		
	ed focus. JButton lost i	focus. JButtor	nained i	forus