02/06/23

Name: Sachin Kathhar Class: BCA IV " Jen

JAVA ASSIGNMENT-2 SOLUTIONS

Roll no: 4/22/139

Q2 what Is an Applet. Discuss types of Applets, what Is The Ofference between on Application & an Appet. The two

dealtime examples of Applets. And An applet Is a small software program or application that sund within a larger program or playform. Here are the types of applets:

Dave Applets: - withen in Jana, they run within a web-browser & provide interactive content on websites.

2 Desktop Applets: - Also known and desktop widgets or godgets. they run on the user's deskhop environment & offer guick access to spertle functions or Information.

(3) Mobile Applets: - Ughtweight applications, accessible from The home screen or a dedicated launches

(4) Web Applets: - Small programs or scripts to enhance webpage

(5) Embedded System Applets: Used In speciffic computer systems to provide functions or control device operations.

Applications Definition

Standalone programs installed on a divice I run Independently,

Execution kun Abeckly on the derhe's 0s

Typically have their Uper own wer Interface

Applets
Small foftware programs
running within a larger
lystem.

Run with another program or platform

Can have their own UI or Integrate with the hast system

Have emitted access to system resources Have direct access to Resource System suppress Access & June Horal Hel Embedded work a webpage, destop entronment, or specific platform Installed on dente Deployment or distributed as Standalone executables Offen our In a Sardboxed May have broad control over clerke regulatry environment with sestituted access to enhance security, Lecusty proper perintsolors 1 Java applet for interactive (1) Mirosoft Word-provide Examples: chart : embloded h word processing Capabilliths a web page for dynamic data 2) Adobe Photoshop; used for Image editing and manipulation 2 Weather wholget he phone / decktop:diploys realthre shift. a CAT ustry Applets. WAP program to Draw 02 Import jove applet. Applet ! Bus Import jara. aut Color; Import gara, aut. Goophes; < applet code = "CatApplet. class" aboth = "400" helght = "600" > </applet> public class CatApplet extends Applet & public void paint (Graphites g) é 11 Draw the head g. Set Color (Color. gray); g. Alloval (100, 700, 200, 200); 11 Draw the ears g. set Color (Color, gray); g. fle Oral (70, 70, 80, 120); 9. fll Oval (250, 70,80,120);

```
11 Draw the eyes
        g. Set Color ( Colors, gellow);
        g. feleval (140, 160, 50, 50);
        g. fill Oval (220, 110, 50, 50);
        11 Drew the nose
        y. Let Color (Color, black);
        9. fell Oval (180, 200, 40, 40);
         11 Draw the mouth
       g. let (olor (color, black);
       g. file Are (140, 200, 130, 100, 180, 180);
           11 Draw the body
        g. set Color (Color gray);
        g. fell aval (90,250, 200, 200);
           11 Dran the legs
       g. set Color ( Color, gray);
g. fle Roct (140, 450, 30,100);
      g. Hellert (280, 450, 30, 100);
           11 Draw the tall
       g- Settolor (color, gray);
       g. fill Polygon (new Int [] 220, 400, 4004 3
                        nus MED 1400, 340, 4103, 3);
was to show Implementation of AWT with Event handling.
Import java. aut. +;
Import jana aut event . ";
public class ANT Evant Handly Example contends Frame Implements
Action listener h
     private lakel label;
     private Textfield textifield;
    prhale Button Lutton)
```

```
public AWTEvent Handly Example () {
                   11 Crease components
                   label = new label ("Enter your name: ");
                  textfield = new Textfield (20)
                   button = new Button ("Submit");
                   11 Let layout
                   Sethayout (new Elosolayoul ());
                   1 Add Components to the Frame
                   add (label)
                   add (textfield)
                   ddd (button)
                  I legtstestre bullon for event handely
                   butter, add Actor Vistener (this);
                  I det frame properties
                  Settetle ("Awr Event Handling Example");
                  tel hie (300, 150)
                  It listle (tome );
             1/ Event handly nelthed
            public vold authorheeformed (Action went C) &
                  If (e. geldowne () = = button) &
                        Story name = tentfield. get Text();
                       If ( name , is Empty ()) {
                           label. setTeat ("Itello," + rame + "!");
                       3 che h
                            label. Set Peat ("Entes your name !").
             public state vold man (Story [] args) &
                    now AWT Event Handlhy Example ();
                                             und for makely a
Moli: A WT (ABATELL WANDOW TOOLKS) is
```

Of Drews Event Class Hierarchy, a Java Is a fee-like Hondon.

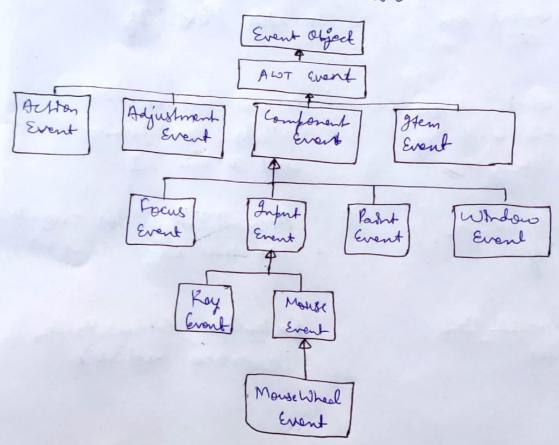
And The Event class hierarchy in Java Is a fee-like Hondon.

With the (java. aut. Event Object) class at the Hop,

This class Is the abstract suproclass to all event classes in AWT event model.

o the (AWTEVENT) class how a number of methods & a no of Subclasses for specific events true getID(), getSouscel, & getWhen().

Some of common event subcligges are ?-



· It provides a conventant way for programmers do handle events in their jone programs

for ex: The 'Mouse Event' class sepressals an event that occurs when a user interacts with a graphly component using the mouse.

DE Compare Jana ANT & Java Surligs Ans JAVA AWT

ANT Is the original GUI tookst provided by Java.

It provides basic set of

Aut components are heavyweight, meanly underlying OS

9+ lacks certain features ette double buffering & transparency

United suppose for accessibility

Less downentation & resources

JAVA SWING

July Is a more advanced & feature Atch GUI tooker built on top of AWT.

9+ effers extensive set of GUI components Includy add" components.

Swang components, are lightweight for better performance & greater featblity.

It has Jeannes like double buffelly, transparency (custom UI

Accessibly for case-to-us for wer with disabling

Extensive documentation & esporares available.