

Done By,

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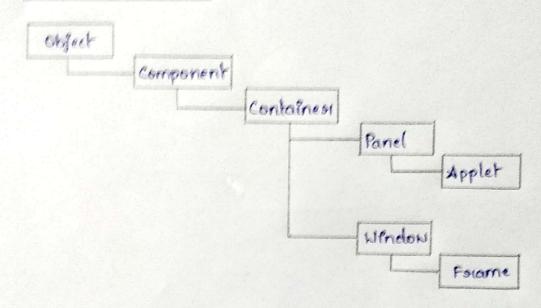
CS 4A

Roll No: 27

Abdorack Window Toolkit - ALIT

- "The AUT contains numerious classes I methods that allow us to create I manage windows.
- The ANT classes one contained in the java, aut package.

Mendous Fundamentals



The 2 most common windows are:

- · Those desilved Josom Panel, which is used by applets.
 · Those desilved Josom Window, which is used by Forame to coreate a ulndou

Wooking with Followes

- * Forame() -> Comeates a standard window with title & bosicless.
- * windowstrame (string title) -> Concates a window with title.
- · vold setstre (int new Width, int new Height) -> To set the dimensions of the window
- * vold set8tze (Dimension new 8ize) -> Dimension object is passed. It contains width I height fields.

- · Dimension get Size() -> To obtain the cuspent size of a window.
- · vold setvisible (boolean visible Flag) To make a coneated mindon visible.
- · void setTitle (8toling new Title) > To change window title
- · (losing a Ferame Hindon) call settisible (false) followed by Hindon (losing ().

· Example: To Coleate a Folame

```
imposit java.aut. *;

public class Main ?

public static vold main (Storing[] asys)?

Forame f = new Forame ("Tutosrials point");

int width = 300;

int height = 300;

1. set-Title ("FRAME EXAMPLE");

1. set-Size (width, height);

1. set-Visible (torue);

?
```

Gronaphics Class

- · Java's Grouphics class include methods for derawing many different types of shapes, forom simple lines to polygons to text in variety of fonts & colors.
- · Methods of Gisiaphics Class
- → donau Storing (): Displays a text storing

- > deauline(): Deaus a eteraight line
- -> donawhar(): Donaws a hollow anc
- -> closau Rect(): Donavs a hollow sectargle.
- -> donau Ovall): Donaus a hollow Oval.
- -> desau Round Rect (): Desaus a hollow exchangle with sounded commens.
- -> desautolygon(): Desaus a hollow polygon
- → fill Assc(): Denous a filled assc.
- -> gill Polygon(): Denaus a gilled polygon.
- -> gell Rect (): Donans a gelled suctangle.
- -> ZILL Round Rect (): Donars a Zilled sectangle with sounded cosmess.
- > get Colon (): Retaileres the cumment donaring colon.
- 7 getFont(): Retaileves the cummently used Jont.
- > set (olosi(): Sets the decaring colosi
- > setFont(): Sets the font.

Colosi and Font

· Colosi Class

The following are three constructions for colon class:

- i) Colon (Port sied, Port green, Port blue)
- (ii) Colosi (Pnt sighvalue)
- (iii) Colosi (gloat sied, gloat green, gloat blue)

· Colosi Methods

Colosi getColosi() sietusins the cusisient colosi.
setColosi (Colosi neucolosi) changes the gosiegaround colosi.

· set the background color I Joreground color using the following methods:

vold set Fosie genound (Colosi neu Colosi)

* He can obtain the cusisient settings Josi the backgeound of Josegeound colosis by calling getBackgeound() & getFosiegeound().
Colosi.getBackgeound()
Colosi.getFosiegeound()

· Font Class

Font (8toling Jont Name, int Jont 8tyle, int point 8tyle)
Where Jont Name specifies the name of the desired Jont.

The style of the font is given by fontstyle. Jontstyle consists of one on mone of these there constants: Font. PLAIN, Font. BOLD, Font. ITALIC.

The size of the font is specified by pointsize.

· Font Methods

Font getFont() > Obtain imformation of currently selected font. String getName() > Gret the name of current font. int getSize() > Gret the size of current font. int getStyle() > Gret the style of current font. setFont(Font f) > Bet the new font.

AWT Controls

- · Controls age components that allow a uses to interact with the application in vasious ways.
- · The ANT supposits the following types of controls:
- -> Labels
- -> Push buttons
- -> Check boxes
- -> Check box groups (Radio buttons)
- -> Choice lists
- -> Lists
- -> Scoroll basis
- > Text field
- + Text assea

· Adding Controls

- -> Coverte an instance of the desired control.
- → Add it to a window by calling add()

 Component add(Component compobj)

 compobj is an instance of the contound that we want to add.

· Removing Controls

-> Call siemove()

vold siemove (component obj)

obj is a sufference to the control that we want to sumove

-> Remove all controls by calling removeAll().

* Responding to Contolos

- Jabels age passive controls Except for labels, all controls generate events when they age accessed by the users.
- The psuggiam simply implements the appeappilate interface and then suggisteries an event histories for each control that we need to monitors

Labels

· Labels are passive controls that do not supposit any internaction with

Push Buttons

"A push button contains a label that genesiates an event when it is pressed.

Check Power

· It consists of a small box that can either contain a check mostly on not.

Check Box Group

· Used to coneate a set of mutually exclusive check boxes in which one 2 only one check box in the govoup can be drecked at any one time

Choice Lists

· The Choice class is used to careate a pop-up list of items farono which the usea may choose

Lists

· It provides a compact, multiple-choice, scrolling selection list.

Scoroll Basis

· Script bases are used to select continuous values between a specified minimum & maximum.

Text Field

· Text fields allow the uses to enter strings I to edit the text using the arrow keys, cut I paste keys I mouse selections.

Pext Assea

· Text Assea is a multiline editos.