

# SNS COLLEGE OF TECHNOLOGY

(AN AUTONOMOUS INSTITUTION)



### COIMBATORE - 35

#### DEPARTMENT OF COMPUTER SIENCE AND ENGINEERING

## UNIT V

Struct avait - 5 Besigning Java Applets in AWT - Applet, window ism PD Toolkid \$ ( @ major thungs \* Applets roundous application creation, it mas a separate package for each. Covic window based java program used Applet . in internet application. Run this using applit\_sourcer | web browser com C (offin) Shere are I types of applets :-3 Locale applet -zwithin in a single system Remote applet . Hardware will do the + operation | op plication 4 + More than one + Netword should be required system connection Ahre must be 2 class in the applet program. ») Applet class (Moin class) import Applet. \*; "> Graphic class -> lang. aust. +; Applit lyb ayole -> while implementing the applit init () -> Variable initialization (1st sty) start () -> call the run method -> Pun () ali stap () -> End of execution destroy () >, Delete the memory occupied distroy() paint() => Graphis class must pass

Structure import java. aut. +; import java . applet \* ; public class class norme extends applit ş public void inites Initialize Variable; (overvide) option is also there (Graphies g) E g. drawstring (arg), 3 compile process: O bet path 3 compile -> javac filename java. applitviewer filnam. java 3 Run To generat applit tay. Applit code "income class" with = 100 , hught = 100 > 21 Applet >

Sorry + Pontable \* Fixed (56 components) + Light weight component 2 key features of swing .. Light weight component Pluckable look and feel " MVC connections are used for the visibility. (Visualize) (Networking) @ Alow it looks @ Reacts with the user @ State information associated with it stwing is a large subset that makes use of many packages. l'extended veries AWT on of java) \* It is a part of \* Abstrat/ Applit onacle, java foundation window Zoolkit class . & Package: Java. aust. +; \* package jawark swing. \*; (05 dependent ) suses original visions \* Light weight component comjonent: Heavy weight \* It is very slow in + Uses pluchable | pluggable loading look and feel. \* Native look and feel.

17 rollage Butte for swing concept 1 xarry 4 import gavare swing . + ; BUTTO class owing domo inte Swingdome () // constructor Heading D.S JEname journ - new JEname ("A Simple \$ Swing Application "); swing jbrm . set size (275,100); journ. Set Default close Operation (JFnarme, i) EXIT\_OUT\_CLOSE), -11) body of the April 45 components Thaled jlab = new Thaled ("Swing means to (5+1 available under swing clan jom. add (jlab); 11 Add JIFram jorn, set visible (true);/1914/ Jlaber in the frame psvm ( String[] args) Swingretulities. involutater (new Runnable C) public void rum () new swingelimo (); 3); Mechanism Shat controls event and childes what should 3 happen is event scents

Sung Example. import java. aut . +; import your applied . \* " Rubbe days based extends Applet 2K Public void point (Graphics 9) duride 12 . 13 a condition g drawstring ("Helle Applet", 200, 200) 11 & applet code = " bosic. class " width = 200, high "2003 ~ lapplet > 3 Compile : javac basic java Pun : oppletriever basic java Dwing :-+ It is a window based application which is same as anot + Used Create a Graphical user interface \* swing is a set of classes that provide more powerful and flexiable GUI components. 4 It is a subset of AWIT Only in fava swing was introduced L> Juna Standard Edistrom AWIT -> resed to defines basic set of controls, windows and doalogue boxes Applit / Phitrat that support a usable components, but limited to user interface. Inlindow Tool kit.

action Listen action from + Implemented defene action perform (report) Java program to print yes, NO, decided: Example: import java aut . \* import ant java. aut. went. import java. applet. +; Public das Button Demos ertondo Applit implimente ActionListmur 2 String msg : " Button yes. no, maybe; -public void init () yes = new Button ("yes") £ no = new Button ("no"). maybe, new Button ( - undecided add (yes); add (no); add (maybe); yes. add dotion Eistener (this); going no. add Action Listener (this); maybe add Action Listiner (this); Joney 2.40 Public void action performed (Action event al) 2 String str = al. get & ction Listner if (str. equals ( Yes ..))

Button and mouse Everet: ENTTON EVENT :. 12.5 Prova button in kyword will converted into Object. component that contains the label. pefine with 2 constructors for button:i) Button () throws Headless Exapte on ii) Button (String str) throws HeadlessExuption. i) It is used to create empty button. i) Create button but it contain string label to create object. (string str): ] To retrive label by calling get label () In program, Adion Mous. · Void setlabel (Otring str) Form Amonto (Key. . string getlabel () It should handled with some functions HANDLING BUTTONS: -Specify what action is pressed I released Action will be taken place while I'm process O Button pressed - Generate Action Event - Listerner (compe EX: downbads from command (notification) will be recieved net. by action event.

£ mag = "you pressed yes "; male else il (sta. equals ("No")) 5 mag = "you prused No."; 3 else £ mag = "you pressed undecided."; 3 nepaint (); 3 Public void point (Graphia g) S 9. draw String (mg, 6, 100); 3 Mouse Event :. Source (generated event) Mouse Event (Component Src, int type, action (Pier 3 MOUSE Evont :. long when , int modifies , int 50, int (y), coordinate int clicks, bookean triggerspopup) notification Budton pressed. (Encible)

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