SAVITRIBAI PHULE PUNE UNIVERSITY T.E. (Department of ENTC)

(Elective – II) ADV. JAVA PROGRAMMING

COMPLETE NOTES FOR INSEM EXAMINATION

DESIGNED BY





Unit-I Applet



	Important point :
	Applet Basics, Applet architecture, HTML APPLET tag, Passing parameter to
	Appletget, DocumentBase() and getCodeBase() , Japplet: Icons and Labels Text
	Fields Buttons, Combo Boxes , Checkboxes, Tabbed Panes, Scroll Panes, Trees:
	Tables.
⇔	Important question :
+	What is applets and limitations of AWT. Differentiate Applets and Application
,	The second of th
+	Explain the life cycle of applets with suitable diagram
V	explain the the egele of applees with suitable alagram
.	Explain all attributes available in <applet> tag.</applet>
+	explain all accirbates available in cappiers cag.
	Fundain (PARAM) too of anulat with with anitable arrange
+	Explain <param/> tag of applet with suitable example.
+	Explain the various controls in applet with suitable example: (buttons, text field,
	combo boxes, checkboxes. Etc)
+	Explain With example: getdocumentbase() and getcodebase()

unit 2

Unit-2 Event Handling using AWT/Swing components



	Important point:	
	Events, Event sources, Event classes, Event Listeners, Delegation event model,	
	handling mouse and keyboard events, Adapter classes, inner classes. The AWT	
	class hierarchy, user interface components, layout manager.	
⇔	Important question :	
+	What is event classes. Enlist its types, explain any two event classes.	
+	What is event handling? Explain delegation event model.	
+	Explain the mechanism of mouse event handling with example.	
+	Explain mechanism of keyboard event handling with suitable example.	
+	What are adapter classes? List advantages using of adapter classes.	
+	What is inner class and explain its types with syntax	
+	Explain AWT class hierarchy.	
+	Explain following components in AWT. (MenuBar, Text components, Lists, Dialogs,	
	Label, buttons, canvas, scroll bar, checkbox, choices, list panels.)	
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+	Write the short notes on – graphics programming	
	Define lengt manager and explain its tupes	
+	Define layout manager and explain its types.	





Ap	plets Basics :
1	mportant question :
	What is applets and limitations of AWT. Differentiate Applets and Application
De	finition :
- ;	Applet are small programs made in Java that can be sent over the internet an
	own on web browsers.
- 1	They can do various things like math, graphics, sound, and animation.
wh	nen applets are used:
	Dynamic Web Content: Applets are used for showing changing things on web page
lik	e moving graphics or real-time updates.
- (Special Effects: They're used to add cool effects like sound, animations, or interactiv
vis	uals to websites.
- 1	Accessible Applications: Applets are used to make applications that can be used onlin
wit	thout needing to download anything extra. By embedded application into web page
Liv	nitations of AWT (Abstract Window Toolkit):
Ah	OT was an older system used for making graphical user interfaces in Java. Howeve
it	had some limitations:
<u> </u>	Platform Dependency: AWT's appearance and functionality relied on the operating
sys	stem, so it looked different on various computers.
	Limited Components: It had a small set of built-in components, restricting desig
cre	eativity.
- l	Lesser Controls: AWT had fewer control features and couldn't handle complex graphic
	multimedia well.:





Main Method Doesn't have a main method Running Status Runs only when embedded in a webpage Access to Restricted access to system Resources Deployment Transferred over the internet Have a main method to star execution Can run independently anytime Full access to system resources Full access to system resources	Ap	plets : are small p	programs that work inside web bi	rowsers to do specific things or
Phone, not just in a web browser. Aspect Applets Applications Where they run Inside web browsers Installed on computers or devices Main Method Doesn't have a main method execution Running Status Runs only when embedded in a webpage Access to Restricted access to system Resources Resources Peployment Transferred over the internet Installed or downloaded			recovered that some do make diff	format this an are your commute
Aspect Applets Applications Where they run Inside web browsers Installed on computers or devices Main Method Doesn't have a main method Execution Running Status Runs only when embedded in a webpage Access to Restricted access to system Resources Deployment Transferred over the internet Installed or downloaded				erent things on your compute
Where they run Inside web browsers Installed on computers or devices Have a main method to start execution Running Status Runs only when embedded in a webpage Access to Restricted access to system Resources Deployment Transferred over the internet Installed on computers or devices Have a main method to start execution Can run independently anytime Full access to system resources Full access to system resources	Pri	one, not just in a	Web blowser.	
Main Method Doesn't have a main method Running Status Runs only when embedded in a webpage Access to Restricted access to system Resources Deployment Transferred over the internet Have a main method to start execution Can run independently anytime Full access to system resources Full access to system resources		Aspect	Applets	Applications
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Access to Restricted access to system Resources Deployment Transferred over the internet Can run independently anytime Can run independently anytime Full access to system resources Full access to system resources Installed or downloaded	— —	Main Method	Doesn't have a main method	
Resources resources Full access to system resources Deployment Transferred over the internet Installed or downloaded	 	Running Status		Can run independently anytime
			,	Full access to system resources
Use Case For interactive web content Perform various tasks on devices		Deployment	Transferred over the internet	Installed or downloaded
		Use Case	For interactive web content	Perform various tasks on devices



Applet Life cycle (architecture): Important question: Explain the life cycle of applets with suitable diagram The following State which are typically used in applet for initialization and termination purpose: Born state, Running state, Display state, Idle state, Dead state as shown in the below figure, stop () I. Born State: This is where the applet gets ready to start. The method used here is 'init()'. It sets up initial values and prepares the applet for running. 2. Running State: Once initialized, the applet enters the running state. Here, the 'start()' method gets triggered. This is where the applet begins executing and performing its tasks. 3. Display State: applet enters in the display state when it wants to display some output. This may happen when applet enters in the running state, the paint() method is for displaying or drawing the contents on the screen. 4. Idle State: The applet might move into an idle state if it's not actively being used. This happens with the 'stop()' method, pausing the applet's actions temporarily. 5. Dead or Destroyed State: When the applet is done or needs to be removed from memory, the 'destroy()' method is called. This is the termination phase where resources are released, and the applet is removed from the system.



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