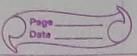
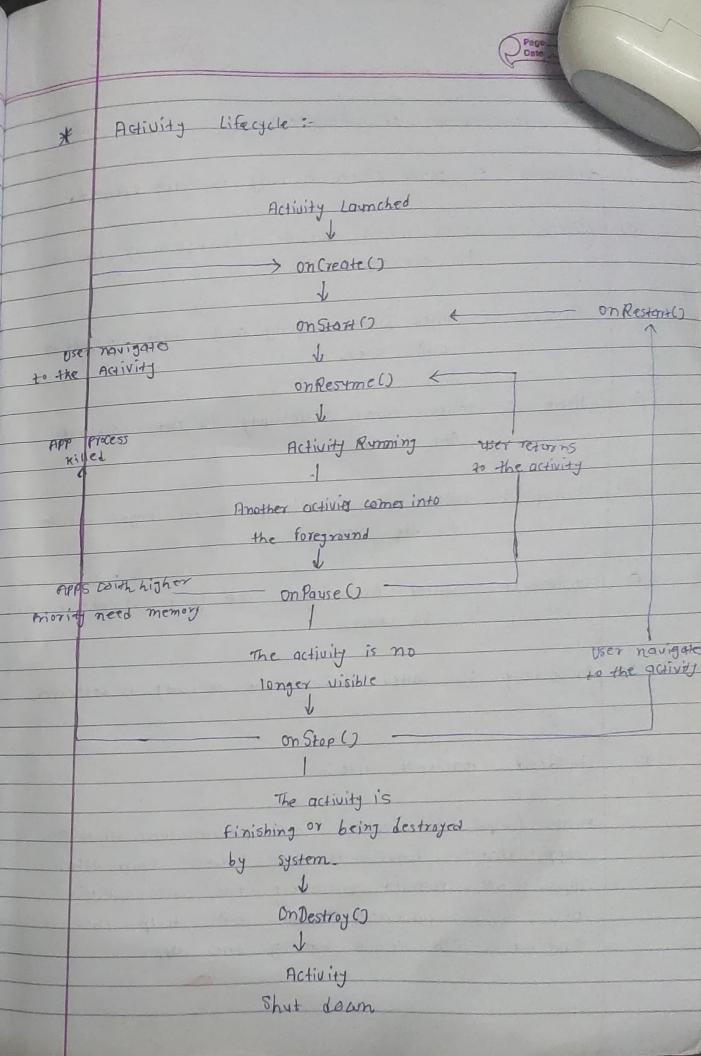
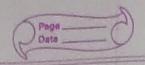
MAD



de	
*	Android Application components:
	Activity
	Inten)
	Service
9	Context provider
(4)	Broad cost Receiver
	LEA LOS DE LA LOS LA
*	Activity: They dictate the UI and handle the
	user interaction to the smart phone
	Screen front-end (m) emd back-end (Java)
->	15 Activity.
	Public class main Activity extends Activity {}
*	Services: They handle background processing
	955 ociated with an application.
	Cherforn long-running operation)
-3)	Public class myservice extends service {}
*	Broadyst Receivers: They handle communication
	between Android OS and application
-1	Out to the One first contact to for the first
	Public closs my Receiver extends Broadcast Receiver &
	Public void on Receive (context, intent) ?
*	content providers: They handle data and database
	management issues.
=>	Public class ingcontent Provider extends Content Provider &
	Public waid on Create() []





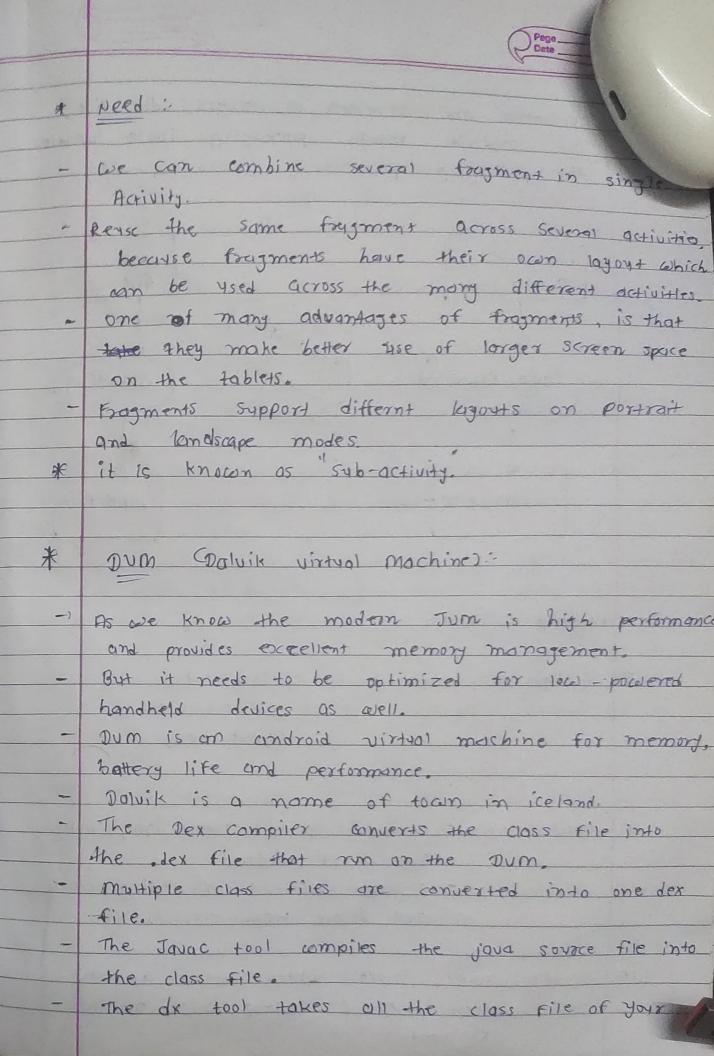
- = main components of lifetycle:
- (1) on Create :- called when activity is first created.
- (2) mostart: called when activity is becoming visible
- (3) on Resume: collect when activity will start interacting with user.
- (4) onforce :- colled when activity is not visible to
- (5) onStop: called when activity is no longer visible
- (6) on Restart: called after your activity is stopped, Prior to start.
 - (3) on Destroy: colled before the activity is destroyed,

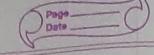
* Android morpifest file:

opp must have to access data from other apps. The anaroid manifest file also specifies the app's package name that helps the anaroid sok while building the app.

you can define following options in ondroid	
(1) Supported sok versions = Ininimum, torget of manimum.	nd
B) Ability to send push notification (4) various permissions for the application * Android Architecture:	
Application layer	}
Application Framework	
cocation-Based content window Activity Package services Provider manager manager manager	
Telephory Bultooth Notification Vitas Resource manage	1
2 ibraries Andraid Ryn time (. Amphics media SSL Ravelkin Andraid Librari (openal) Media SSL Ravelkin Andraid Librari	71
ibc salite surface machine covm	

	Linux kernel						
			1	1	1	Inempry	
	Hondwore	Drivers	Pote	197	process	management	
	Cust Dip	100,	ma	myemena	mangement	manajunin	
	Bluetouth	, C+C)					
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*	Intent.	-			-		
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	- Fragment can use in several						
	activities '						
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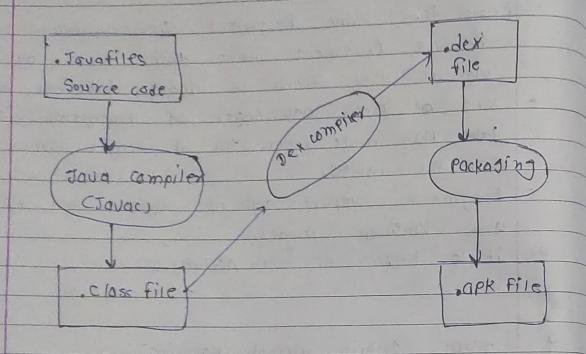




application and generates 9 single dex file.

The android Assets packaging Tools handles

the packaging process.



* Android Mena:

3 type of meny = 12 Option meny
22 context meny
32 Popye meny

D option ment: Andioid option ments give primary

menus of android

- They can be used for settling search

and delete item etc.

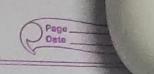
2) context ment: Android antext ment appears
when user press long click on the
element.

it is also known as floating meny,

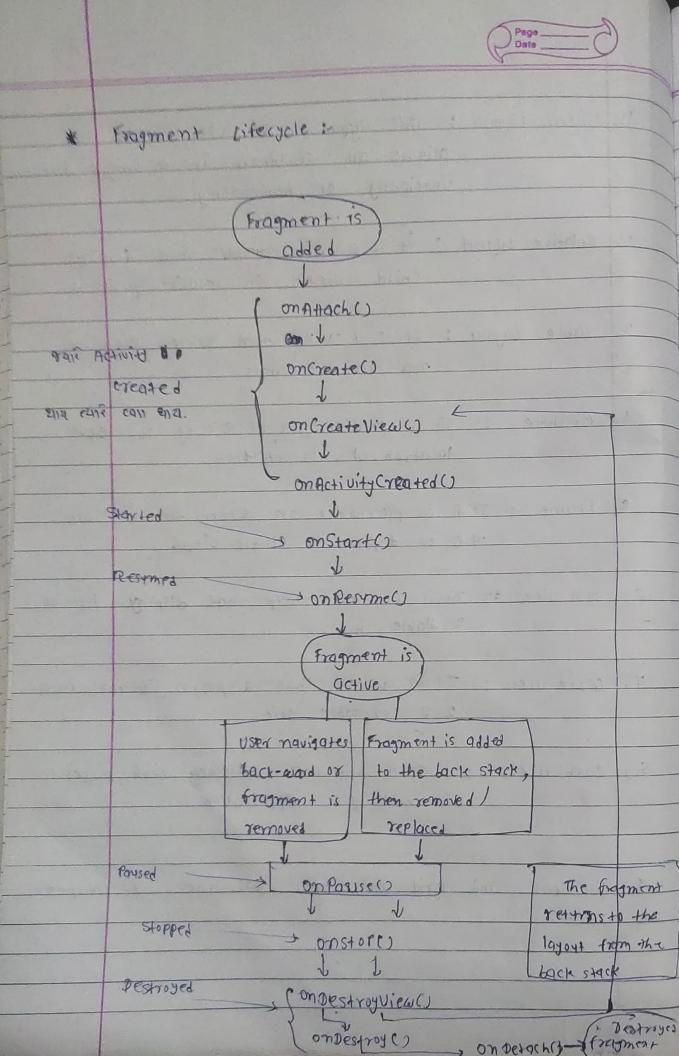
- 3) Popup meny: A this meny displays the meny below the anchor text if space is available otherwise above the anchor text.
 - It disappears it you dick outside the popup
- * View and view group :-
 - Android View class and View group class.
- View is a basic block of UI in android. A view is a small rectangular box that responds to user inputs. Ex Button, Edit Text, checkbox etc.
 - when we use on app, such as a button, aditing tenct and images.
 - The View class is a base class for all the GUI components in android.
 - -> View refer to the android view View class, which is
 -the base crass of an UI classes.

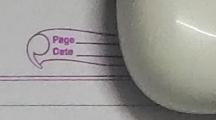
* Viewcroup: View group is an invisible container of other views and view aroups. Ex linear Layout is a View Group that am contain other views in it. - View aroup is a special trind of view that is extended from view as it base doss. - The ViewCoroup class is a subclass of view class. And also it will be act us a base class for all layouts and layouts parameter. Ex linear lajout is the viewgroup that contains UI controls like Button text view. View Group Refer to the antroid View View Group class. Layouts : A layout defines that the visual gructure for a year interface, such as the UT for an activity or app evided. Here B types of layout: n Linear Lagout 21 Relative Layout 3) Table Layout 41 Aboute Layout 5) Frame Lagout. 6) List view

Il ceril view 90 web view



- D linear layout: This layout is a view group that
 aligns all children in a single direction,
 vertically or horizontally.
- 2) Relative Layout: it is a view group that displays thild views in relative positions
- 3) Table Layout: It is a view that groups view into
- 43 Absolute: It is enables you to specify the exact location of its children
- s) frome: It is a placeholder on screen that you can use to display a single view.
- 6) List view :- It is a view group that display list or
 Scrollable Hem.
- 7) corid view: It is a vor that displays items in a 2-0 scrollable goid
- 8) Web view: It is view that display web pages inside your application.
- # List view and grid view one subclasses of Adapter view.





* Event Handling:

- Events are a yseful way to collect data about a user's interaction with interactive components of applications. Like button presses or screen touch etc.

Event Listeners

Fuent Listeners

Fuent Handlers

* Event Listener & Handler :-

un onclick -> onclick Listener: This is called when the

user either click or touches or

focuses upon any widget like

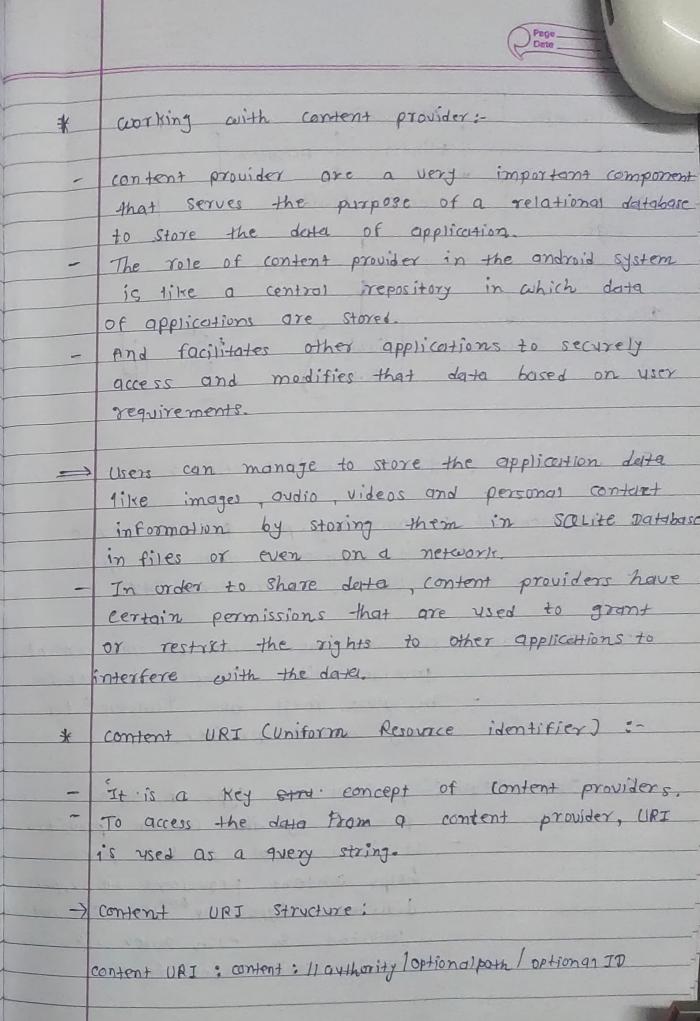
button text image etc

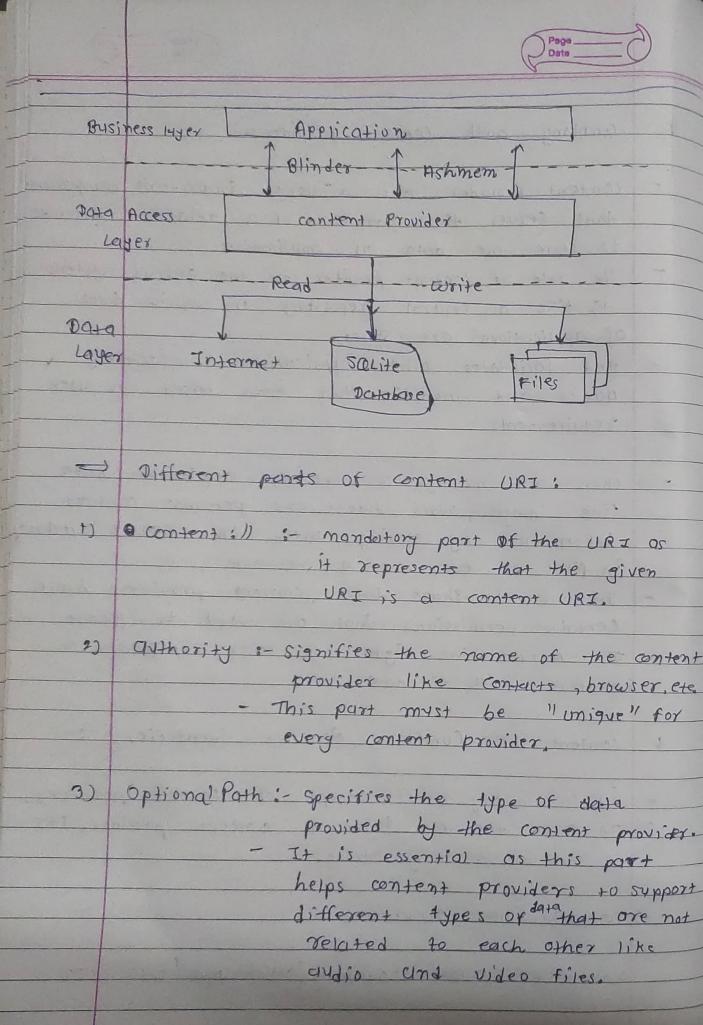
+ Event Listeners registration:

2) Activity class implements the Listener

3) Using Legout file activity main xm1 to specify event handler directly.

*	Storage options in android:						
1	Shared preferences						
	Internal Storage						
3)	External storage						
	Salite patabas						
	Network Connection						
	The second secon						
(1)	shared Preferences: - Store private primitive data in key - valve pairs.						
	Ex Username - password						
2)	Internal storage: - Store private data on the						
	device memory.						
	Ex Phone storage						
2)	was a series of the series of						
2)	External storage: - Store public data on the						
	Shared external storage						
	Sometimes when internal storage was full than						
	use external storage						
	Ex so card.						
	The state of the s						
4)	Salite Database: - Store Structured data in private						
	database. Letta which support scar						
-	Fil Phone contact List (structured form), avening.						
	true caller						
8) 1	Jetwork Storage: Store data on the web with						
	your own network Perver.						
The state of							





Optional ID: It is a numeric value that is used 4) when there is a need to access a particular record. If on ID is mentioned in 9 URI then it is co an "id-based URT" otherwise a "directorybased URI". * operations in content provider: -> FOUR fundamental operations are possible in content provider: create Read UPdate Delete. 1) create: operation to create data in a content provider. 2) Read :- Used to fetch data in a content provider. 3) Update: - To modify existing data. 47 Deleta: To remove existing data from the Storage. * UI components of android applications like activity and fragments use an object "CHTSOT Loader" to send query request to "content Resolver". The