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Q:- 1 Based on your understanding identify a recent business thend that has influenced the Android Platform. Explain how this trend impacts Android UPP developens and businesses in the mobile upp industry. one secent business triend that has influenced the Android platform is the growing demand for mobile gaming. - Incheusing Popularity of Smartphone and advancement In technology, more and more people are turning to their Android device for guming. - It has also opened up new oppositunities for businesses in the mobile cupp industry, as they can tap into the locrative gaming market by eneating and monetizing enjuying and impersive gaming experience FOH undroid USEH. - This thend impacts Android upp developer and businesses in the mobile cipp industry by creating e huge mostket for gaming cipps. - Developers have the oppositunity to create innovative and addictive games that cuter to the interest OF undroid Useus. This can lead to increased downloads, user engagement and monetization through in-app purchess or aids. - Overal, the demand for mobile gaming on undroid PHESENTS a valuable oppositunity for developers and DEEP XEROX businesses to thrive in the mobile supp industry.



Q:-2	what is the purpose of an Inflator of layout in Android development, and how does it fit into the architecture of Android layouts?
	The purpose of an Inflator in android development is to take an Xml layout file and convert it into corresponding View objects in memory. It is responsible for parsing the Xml file, creating the necessary View objects, and setting their attributes based on the information provided in the Xml. In terms of the architecture of Android layouts, the Inflator plays a crucial hole when an activity needs to display a layout, it uses the Inflator to convert the Xml layout. File into a view hierarchy. The Inflator participates in the process of creating the UI and Populating its contents. It traverse the xml file, create the necessary view objects and attaches them to their parent containers. It also handle the attributes
	Value Specified in the XML, Such as Setting text, colons, size and other properties on the corresponding view object. Overall, the Instator is a Fundamental Component in Android layouts as it bridges the gap between the XML Bused layout file and the actual view object that compose the User interface.
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Q:-3	Explain the concept of a custombialogBox in Android cupplications. Provide examples to illustrate its use.
	In Android application, a custome Dialog Box is a user interface element that allows developers to create customized dialog windows to promit the user information or display important message. It provides flexibility in terms of apporance and behavior compared to the standard Alert Dialog provided By the Android SDK.
	Examples:- MainActivity.Kt:-
	import android os. Bundle
	imposit unduoid. widget. Button imposit unduoid. uppcompact. upp. App (Impat Activity () couss MainActivity: AppCompatActivity () &
	Overvide Fun Oncheute (Saved Instance State: Bundle) § Super. Oncheute (Saved Instance State)
	Set Content view (R. luyout. activity-main) Val Dialog = find view By Id Button (R. id. btn) Dialog. seton Clicksten &
MILES OF	Val custom Dialog = Dialog (this)
	z custom Dialog show ()
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100	undroid"
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	android: Id = "@+id /btn"
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W. 3 11 11	upp: 1 ayout - Constraint Top-toTopOF = "Parent"
	candraid: text = "Custom Dialog Box" />
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	Dialog . Kt :- 1 d d d d d d d d d d d d d d d d d d
	impant android. app. Dialog
	impost undsoid. Content. context
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	class Dialog (context: context); Dialog (context) &
	Overside Fun on Checite (Suved Instance State: Bunddig) &
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	Set Content View (Relyout. activity-dicitog)
	val btn = FindViewById (Button > (R. id. btn)
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DEEP XEROX	dismiss ()
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- activity - diclog .xm1:-< linear layout xmlns: unduoid = "http://schemus. unduoid. com/upk/Hes/android android: layout - width = "match - parent" condroid: layout - height = "wrap-content" km Ins: and Hoid = "http://schemus. and Hoid. com/apk/tools" android: orientation = "vertical" tools: context = "Dialog"> transfers I toyen at a top of the manufactor of the second to the second d Ktextview mer black readcomment as a self and a self android: layout - width="whap-content" undroid: layout-hight + "wrap - content" android: text = "This is custom Dialog Box" conducid: id = "@ +id /tv "> entitoyen - constant Tel-toTelet : Torrant emdroid: id = "@ +id /b+n" android: layout - width = "match. powent" undroid: layout - height = " match powent Wrap-content android: text = 10k" /> word and statement to main largest conducid content and testing Lines to Ballett Liefer Legler Agner F (Restron) paloigh: Cardens & traken got sic are Over the Com Continued (Some Ingresone State till under the E the war the the Buredinghame late Contention of Browers Ochilles williams Cald the stand on By English Cald Later D bin berthelisten a



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Q:-4	How do activities, Services, and the Android Menifest File work together to make an Android app? can you describe their main hores and provide a basic example of how they cooperate to design a mobile app.
100	Every app Project must have an Android monifest file
	cut the most of the phoject Sounce get. The manifest file describes essential information about your app to the Android build tools, the android operating System and google Play. The component of the app which include an activities, services, broadcast receiver and content providers.
-	Activities:
113	Activities are the building blocks of the Usen
	interferce in Android apps. they represent individual screen on user interferce.
14.00	example:-
•	Activities hundle the DI Design und munage the
	Services:
	Services Perform buckground tasks independity
	OF the UI, ensuring tusk continue Munning even when
	the CIPP is not in the Foreground.
	example :-
	Service are Rasposiblie for long operation.
	such as file download, music playback etc.
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-> Android Manifest . Xm1:-

The Android manifest-XMI file is the app's configuration file, providing essential information to the Android system about the app's components and behavior.

example:-

The mainfest file is Used to specify how the approved intriect with the android system.

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Q:-5	How does the Android Munifest file impurt the development of an Android application? Provide an example to demonstrate its significance.
	Androldmanifest. Xml file significantly impacts the development of an android application in Senteral ways. It serves as a crucial Configuration file that defines the apply Structure, behavior and interaction with the Android System.
	The munifest file declares on the components of the app, including activities, Servicies, broadcast Reciever and content providers. All component tell the Androld system how to manage and interct with this components.
•	2. Permissions:- Permissions your CIPP require to access System resource and user data. Properly declaring permissions in the manifest informs user about the apply capabilities and requests their consent.
DEEP XEROX	3. App configuration: The manifest file include metadata and setting that configure various aspects of the cipp, such as its theme, icon, lubel, axientation and launch mode.
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	4. intent fitters:
	Intent filter cure defined in the manifest
	to specify how your copp responds to external
	event and sequests. For example, you can define
	en intent filter to hundle opening specific file
	type.
	Example:-
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	cindroid: icon = "Q drawable / camera_icon>
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0:-6	What is the stone of resources in Android development Discuss the various types of resources and their significance in areating well-structured applications. Provide examples to clarify your points.
->	Resources in Android development are essentice for providing Various type of content to your app. Such as images, Strings, layouts and more. They help in organizing and managing the app's content suparately from the code, making it easier to update and localize your app.
	Types of Resources:-
	Tolayout Resources ('stes/layout/'): Define the Structure and arrangement of User interface elements.
•	- Separating UI layout From code promotes maintainbity across device and orientations Example:-
	xmins: undroid = "http:// Schemes. Com / cipk / ses / android undroid: layout-width = "match-Present"
	conducid: tayout-height = "match-parent" > conducid: oxientection = "vertical" > (Text view
DEEP XEROX	undroid: id = "@ +id /tv" undroid: layout - width= " wrap - content"
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2. String Resource ('res / value / string, xm1): - store text strings Used in the cipe faciliting localization and interctionalization. - Allew for translation of app content into different language without changing code. - Example: - Example: - String name = "F-Name" > Jensi - String name = "I-Name" > Pate1 - String name = "Interest Scheme densities. - Finsure proper image. Hescultion and quality on various devices. - Example: 'Hes / drawable /ic - launcher. Page' - Define colose Values used throughout the cipe. For consistent theming. - Phomotos Visual consistency and make it cusien to replaced update the app's Color Scheme - Example: - - Xiesource > - Color name = "Primary - Color" > # OOTACC - Color name = "accont - Color" > # FF4081 - Color name = "accont - Color" > # FF4081 - Color name = "accont - Color" > # FF4081 - Color name = "accont - Color" > # FF4081 - Color > - Color name = "accont - Color" > # FF4081 - Color > - C		
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r	5. Style and theme Resource ('Mes Natures /Style .xm1): - Define Styles and themes Fox UI elements. - allowing Fox consistent Styling. - make it easier to apply and maintain a consistent look and feel across the app. - Example: - Kesource > Kesource > Kesource > Kesource > Kesource > Resource - App Compat. Light . Dark Action Bus" >
9 1	6. Raw Resource (Hes/Howl'):-
	- Store now data files, such as audio or video
	- Allow for the inclusion of binary dute or medie
0	without compression.
	- Example :- 'Hes /How / audio-mps
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Q:-7	How does an Android Service contribute to the Functionality of a mobile application? Describe the process of developing an Android Services.
5	Android Service is a components that is used to perform operations on the background such as playing music, hundle network transection interacting content provided etc. It doesn't has any UI. The Service runs in the Buckground idefinitely even if application is destroyed. Service can be bounded by a component to perform
7. 3	Interactivity and inter process communication. Developing an Android Services:- (1) Create Service class:-
	- The chewte a Juva on Kotlin class that extends the senvice class on its subclass Implement the senvice come functionality within
•	onstart Command methods. Ensure that the sorvice operation can sun independently in the background.
	2. Declare the Service in the Androidmainfest-xm1: Register the Service in the Androidmanifest file. Specify its name and any required permission.
	3. Sturt and stop service: - you can start a service using an Intent' From any component of your appareren Exom other apps.
DEEP XEROX	Use 'sturt Services (intent)' to inititute the Services Page No. 11 execustion.

- Use 'Stop Service (intent) 'on stopself () 'From within the service to stop it when its no longer headed. - Examples Justing and all the many with the

Val intent = Intent (this, Myservice); class - Java) Start Service (intent)

4. Destacy Services:

- Service is no longer used and is being destory.
- Your service implement this to clean up any Hesowice such as threads, negistned listeners Receivers, etc. medical as stores at 1 15 pt by work at the exercise is

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