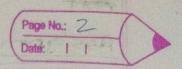
181240116001 vishwas Acharga Assignment - 5 Page No.: 1 Date: | | It what is Location services and Maps in Android? Android location API's make it easy Por you to build location-aware applications without needing to focus on the details of the underlying location technology. - This becomes possable with the help of Grougle Play services, which facilitates adding lantion awareness to your app with automated location tracking, geofering and activity recognition - The location object represents a geographic location which can consist of a latitude longitute, time stomp, and other information such as bearing, altitude and velocity. To get CURRENT LOCATION, create a location. elient which is Location Client object, cornect it to Location services using connect() method, and then call its getlastlantion() method. This method returns the most recent location in the form of location object. To have location based functionality in your activity, you will have to implement two interfores



L's Grougle Play Services Client, Connection Callbacks 25 Google Play Services Client. On Connection Failed Listers - To get UPDATED LOCATION you will need to implement Location Listener interface of - This interface provides following callback --- abstract void on Location Changed (Location location) - The Location Request object is used to request a quality of service (gos) for location updates from the Location Client - Hence, this is the required explaination on location services and maps in android.

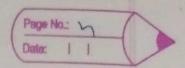
2/ Explain how Groogle Maps use en Android Android allows us to integrate google maps in our application. - You can show any location on the map, or can show different routes on the map e.t.c.
- You can also customize the map according to your choices

· Grougle Map - Layout File

- Now you have to add the map fragment

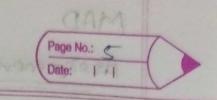
into xml layout file. · Syntax 4> < fragment android: id = "@ +id/map" android: name="com.google.android.gros.mops.mop" and soid: layout width="match-parent" android: layout-height="match-parent"/> · Groogle Map - Android Manifest Pile - The next thing you need to do is to add some permissions along with the Grongle Map API key in the Androind--Manifest.XML · Permissions LY ACCESS_NETWORK_STATE LO IMPRHET L'S READ-GSERVICES LS WRITE EXTERNAL STORAGE · APT Key Lo nome = "com. google. and soid maps. v2 APIKEY" Ly value = "AIza DFGTMEBISK V610 TFO36 MOD" =) Hence, this is how Gragle Maps is used

in And roid



31 what is Geocoding and Reverse Greacoding? Explain it in detail. Ane - A class for geocoding and reverse geocoding. Geocoding is the process of transforming a street address or other description of a location into a Clotitude, longitude) coordinate - The Greacoder class requires a backend service that is not included in the cose android framework - The Greocoder query methods will return an empty list if there no backend services in the platform - Use the PsPresent() method to determine whether a Geogoder implementation exists · Public Constructors - Geocoder (Context rontext, Locale locale) Ly It is a geocoder who responses will be localized for the given locale. - Geographical Context context) 4 It is a geomder whose response will be localized for the default system · Public methode Lo List < Address

& 5 get Franlocation, get From location Names.



O Reverse Geocoding

a latitude and longitude and converts

it to an address or place such as

(city, state, country, zip, etc).

consdinates alone doesn't make much sense to us, therefore we must reverse grocade them into an address or a physical location

Reverse geocoding is commonly used within emerciancy services, GPS tracking systems in any other location-toosed application.

For example when you place a 911 call,
first responders are able to see you
address location be reverse geocoding
that coordinates provided by the
GPS chip on your phone

Many geocoding software or API's mayoffer this feature.