## Assignment - 7

Tible: Google Maps App

Problem statement: Design a mobile app using Google maps and GPS to trace the location:

Objective:

To implement & mobile app to trace the

· To understand basic of android studio

. To understand basiciot Google map and

Atter: successfully completing this assignment, student should be able to understand and implement mobile app to trace the location

Requirement: Adroid Studio IDE, emulator

"Theory: changle maps is a web mapping service developed by google. It offers a sattelite imagery, ariel photography, street maps, 360° interactive panoramic views of streets, real-time traffic conditions and route planning for transelling by foot, car, bicyele, eir and public transportation.

GPS:

The Global Positioning System (GPS), originally MANSTAR GPS is a satellite based radionaxigation system owned by the United States government and operated by the United States Government and.

Space Force. It is one of the Global Manigation Satellite Systems (GMSS) that provides geolocation and time information to a GPS reciever anywhere on as mean Earth where thege is an unobstructed line of sight to four or more GPS catellites.

Obstacles such as mountains and buildings block the relatively weak GPS signals.

Google Map layout file

android: id = " @ + id / nagps "
android: layout width = " matchparent"
android: layout height = " matchparent" />

Manifest File: We have to add the following permissions along with google map API key to android manifest ACCESS\_FINE\_LOCATION: For accessing GPS logation. ACCESS\_COARS\_LOCATION: For accessing network previder location Syntax: < user-permission android: name = android permission: permission - type " 1> <1 --- Google API Key- ---Smetadata android: name = "package path" android: value = "Google API key" 1> Customizing Google Maps: Adding marker: aid all birdelelik MarkarOptions mo: new Marker Options ().
position (new Latling (0,0)), title ("mylocation"). GoogleMap mMap = gooleMap: mMapaddMarker (mo);

FOR EDUCATIONAL USE

Sundaram

Changing map type:
Grongle Map. set MapType (Grongle Map-MAPTYPE).
Enable I disable 200 m:
Google Map. get Visit Things (). set Zoom Grestures - - Enabled (true).
To get g. corrent location:
requestlocation ().
Te zoom a particular area:
map, no ve Camera (Camera Update, UP),
Conclusion: Thus, after successfully completing this assignment; students should be able to understand and implement mobile
app to trace the location.

• \$