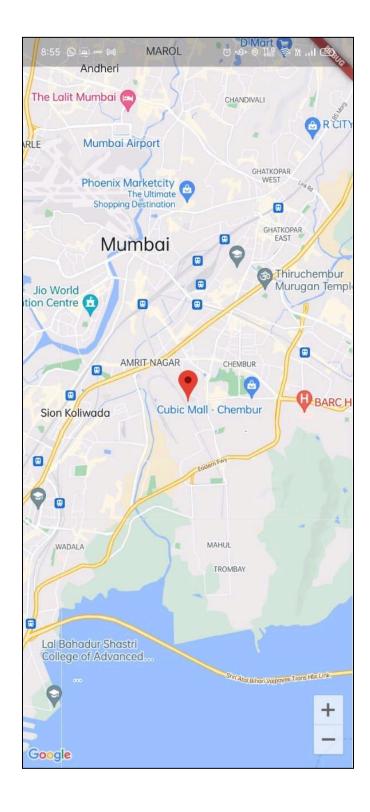
## EXP 1: To include icons, images, fonts in Flutter app.

Aim: To include icons, images, fonts in Flutter app

Theory:



Name: Aaqueeb Pinjari | Class: D15B(C) | Roll No.: 56

```
Code:
import 'dart:async';
import 'package:flutter/material.dart';
import 'package:google_maps_flutter/google_maps_flutter.dart';
import 'package:flutter_polyline_points/flutter_polyline_points.dart';
import 'package:google_maps_yt/consts.dart';
import 'package:location/location.dart';
class MapPage extends StatefulWidget {
 const MapPage({super.key});
 @override
 State<MapPage> createState() => _MapPageState();
}
class _MapPageState extends State<MapPage> {
 Location _locationController = new Location();
 final Completer<GoogleMapController> _mapController =
   Completer<GoogleMapController>();
 static const LatLng _pGooglePlex = LatLng(37.4223, -122.0848);
 static const LatLng _pApplePark = LatLng(37.3346, -122.0090);
 LatLng? _currentP = null;
 Map<PolylineId, Polyline> polylines = {};
 @override
 void initState() {
  super.initState();
  getLocationUpdates().then(
   (_) => {
    getPolylinePoints().then((coordinates) => {
       generatePolyLineFromPoints(coordinates),
      }),
   },
  );
 }
 @override
```

```
Name: Aagueeb Pinjari
                                             Class: D15B(C)
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   Widget build(BuildContext context) {
    return Scaffold(
     body: _currentP == null
        ? const Center(
          child: Text("Loading..."),
         )
        : GoogleMap(
          onMapCreated: ((GoogleMapController controller) =>
            _mapController.complete(controller)),
          initialCameraPosition: CameraPosition(
           target: _pGooglePlex,
           zoom: 13,
          ),
          markers: {
           Marker(
            markerId: MarkerId("_currentLocation"),
            icon: BitmapDescriptor.defaultMarker,
            position: _currentP!,
           ),
           Marker(
             markerId: MarkerId("_sourceLocation"),
             icon: BitmapDescriptor.defaultMarker,
             position: _pGooglePlex),
           Marker(
             markerId: MarkerId("_destionationLocation"),
             icon: BitmapDescriptor.defaultMarker,
             position: _pApplePark)
          polylines: Set<Polyline>.of(polylines.values),
    );
   }
   Future<void> _cameraToPosition(LatLng pos) async {
    final GoogleMapController controller = await _mapController.future;
    CameraPosition _ newCameraPosition = CameraPosition(
     target: pos,
     zoom: 13,
    );
    await controller.animateCamera(
     CameraUpdate.newCameraPosition(_newCameraPosition),
```

);

```
Name: Aagueeb Pinjari
                                             Class: D15B(C)
   }
   Future<void> getLocationUpdates() async {
    bool _serviceEnabled;
    PermissionStatus _permissionGranted;
     _serviceEnabled = await _locationController.serviceEnabled();
    if (_serviceEnabled) {
      _serviceEnabled = await _locationController.requestService();
    } else {
     return;
     _permissionGranted = await _locationController.hasPermission();
    if (_permissionGranted == PermissionStatus.denied) {
      _permissionGranted = await _locationController.requestPermission();
     if (_permissionGranted != PermissionStatus.granted) {
      return;
     }
    }
     _locationController.onLocationChanged
       .listen((LocationData currentLocation) {
     if (currentLocation.latitude != null &&
        currentLocation.longitude != null) {
      setState(() {
        _currentP =
          LatLng(currentLocation.latitude!, currentLocation.longitude!);
        _cameraToPosition(_currentP!);
      });
    });
   Future<List<LatLng>> getPolylinePoints() async {
    List<LatLng> polylineCoordinates = □;
    PolylinePoints polylinePoints = PolylinePoints();
    PolylineResult result = await polylinePoints.getRouteBetweenCoordinates(
     GOOGLE_MAPS_API_KEY,
     PointLatLng(_pGooglePlex.latitude, _pGooglePlex.longitude),
     PointLatLng(_pApplePark.latitude, _pApplePark.longitude),
```

travelMode: TravelMode.driving,

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```
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                                                Class: D15B(C)
                                                                                                 Roll No.: 56
     );
     if (result.points.isNotEmpty) {
      result.points.forEach((PointLatLng point) {
       polylineCoordinates.add(LatLng(point.latitude, point.longitude));
      });
    } else {
      print(result.errorMessage);
    return polylineCoordinates;
   }
   void generatePolyLineFromPoints(List<LatLng> polylineCoordinates) async {
    PolylineId id = PolylineId("poly");
    Polyline polyline = Polyline(
       polylineId: id,
       color: Colors.black,
       points: polylineCoordinates,
       width: 8);
     setState(() {
      polylines[id] = polyline;
    });
   }
```

## **Conclusion:**

In this Experiment we learnt how to include icons, images and fonts in Flutter. Also overcame the different problems and difficulties faced while doing this experiment.