CODING:

```
package com.example.geofence;

import android.app.PendingIntent;

 import android.content.Context;

 import android.content.ContextWrapper;

import android.content.Intent; import android.widget.Toast;


import com.google.android.gms.common.api.ApiException;

import com.google.android.gms.location.Geofence;

 import com.google.android.gms.location.GeofenceStatusCodes;

 import com.google.android.gms.location.GeofencingRequest;

 import com.google.android.gms.maps.model.LatLng;

 public class GeofenceHelper extends ContextWrapper {


private static final String TAG = "GeofenceHelper"; PendingIntent pendingIntent;


public GeofenceHelper(Context base) {super(base);

}


public GeofencingRequest getGeofencingRequest(Geofence geofence) { return new
GeofencingRequest.Builder()

.addGeofence(geofence)



.setInitialTrigger(GeofencingRequest.INITIAL_TRIGGER_ENTER)

.build();
```

```
}

public Geofence getGeofence(String ID, LatLng latLng, float radius, int transitionTypes) {
return new Geofence.Builder()
.setCircularRegion(latLng.latitude, latLng.longitude, radius)
.setRequestId(ID)
.setTransitionTypes(transitionTypes)
.setLoiteringDelay(5000)
.setExpirationDuration(Geofence.NEVER_EXPIRE)
.build();

}

public PendingIntent getPendingIntent() {if (pendingIntent != null) {
return pendingIntent;

}
Intent intent = new Intent(this, GeofenceBroadcastReceiver.class);
pendingIntent = PendingIntent.getBroadcast(this, 2607, intent,

PendingIntent.FLAG_IMMUTABLE);


return pendingIntent;
}
```

```
public String getErrorString(Exception e) {if (e instanceof ApiException) {
ApiException apiException = (ApiException) e; switch (apiException.getStatusCode()) {
case GeofenceStatusCodes
.GEOFENCE_NOT_AVAILABLE: return "GEOFENCE_NOT_AVAILABLE";
case GeofenceStatusCodes
.GEOFENCE_TOO_MANY_GEOFENCES:
return    "GEOFENCE_TOO_MANY_GEOFENCES";
case GeofenceStatusCodes
.GEOFENCE_TOO_MANY_PENDING_INTENTS:
return    "GEOFENCE_TOO_MANY_PENDING_INTENTS";

}
}

return e.getLocalizedMessage();
```

7.2 Feature 2 (Alert Notification)

- Once geofence is added , when the child enters the geofence a notification willbe sent

- When the child leaves the geofence a notification will be sent .

```
package com.example.geofence;
 import android.content.BroadcastReceiver;
```

```
 import android.content.Context;

 import android.content.Intent;

 import android.location.Location

; import android.os.CountDownTimer; i

mport android.util.Log;

import android.widget.Toast;

 import com.google.android.gms.location.Geofence

;import com.google.android.gms.location.GeofencingEvent import java.util.List;

 import android.os.Handler;

public class GeofenceBroadcastReceiver extends BroadcastReceiver {private static final String TAG =
"GeofenceBroadcastReceiv";
```

receiving

```
@Override

public void onReceive(Context context, Intent intent) {

// TODO: This method is called when the BroadcastReceiver is



// an Intent broadcast

//.

/*Toast.makeText(context, "GEOFENCE_ENTERED", Toast.LENGTH_SHORT).show();
```

```
final Toast mToastToShow;

int toastDurationInMilliSeconds = 1200000; mToastToShow
= Toast.makeText(context, "GEOFENCE_EXITED", Toast.LENGTH_LONG);
// Set the countdown to display the toast CountDownTimer toastCountDown; toastCountDown = new
CountDownTimer(toastDurationInMilliSeconds, 100000) {public void onTick(long
millisUntilFinished) {    mToastToShow.show();
}

public void onFinish() { mToastToShow.cancel();
}
};

// Show the toast and starts the countdown mToastToShow.show(); toastCountDown.start();*/
NotificationHelper notificationHelper = new NotificationHelper(context);
notificationHelper.sendHighPriorityNotification("GEOFENCE_TRANSITION_ENT ER",
"", MapsActivity.class); GeofencingEvent geofencingEvent =

GeofencingEvent.fromIntent(intent);

if (geofencingEvent.hasError())
Log.d(TAG, "onReceive: Error receiving geofence event..."); return;
}
List<Geofence> geofenceList
=
geofencingEvent.getTriggeringGeofences(); for (Geofence geofence:
geofenceList) {
```

```
Log.d(TAG, "onReceive: " + geofence.getRequestId());
}

//                  Location location = geofencingEvent.getTriggeringLocation();int transitionType =
geofencingEvent.getGeofenceTransition();

switch (transitionType) {

case Geofence.GEOFENCE_TRANSITION_ENTER:

notificationHelper.sendHighPriorityNotification("Entered the Location", "", MapsActivity.class);
break;

case      Geofence.GEOFENCE_TRANSITION_EXIT:

notificationHelper.sendHighPriorityNotification("Exited the Location ", "", MapsActivity.class);
break;

}
}
}
```