9(A) PROGRAM:

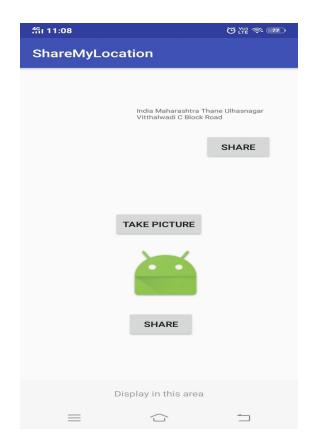
```
MainActivity.xml:
                                                android:layout width="wrap content"
<?xml version="1.0" encoding="utf-8"?>
                                                android:layout height="wrap content"
<RelativeLayout
xmlns:android="http://schemas.android.c
                                                       android:text="Share"
om/apk/res/android"
                                                android:layout below="@+id/tvData"
xmlns:app="http://schemas.android.com/a
pk/res-auto"
                                                android:layout toRightOf="@+id/btnTakeP
                                                ic"
xmlns:tools="http://schemas.android.com
/tools"
                                                android:layout toEndOf="@+id/btnTakePic
   android:id="@+id/activity_main"
   android:layout width="match parent"
                                                       android:layout marginTop="25dp"
   android:layout_height="match_parent"
                                                />
                                                   <Button
android:paddingBottom="@dimen/activity
                                                       android:id="@+id/btnTakePic"
vertical margin"
                                                android:layout_width="wrap_content"
android:paddingLeft="@dimen/activity ho
rizontal margin"
                                                android:layout height="wrap content"
                                                       android:text="Take Picture"
android:paddingRight="@dimen/activity h
orizontal margin"
                                                android:layout centerVertical="true"
android:paddingTop="@dimen/activity ver
                                                android:layout centerHorizontal="true"
tical margin"
                                                   <ImageView</pre>
tools:context="com.example.reshamverlia
                                                       android:id="@+id/iv1"
ni.sharemylocation.MainActivity">
                                                       android:layout width="100dp"
   <TextView
                                                       android:layout height="100dp"
       android:id="@+id/tvData"
                                                app:srcCompat="@mipmap/ic launcher"
android:layout width="match parent"
                                                android:layout below="@+id/btnTakePic"
android:layout height="wrap content"
                                                android:layout alignRight="@+id/btnTake
android:layout_alignParentLeft="true"
                                                Pic"
android:layout alignParentStart="true"
                                                android:layout alignEnd="@+id/btnTakePi
                                                c"
android:layout alignParentTop="true"
                                                       android:layout marginTop="18dp"
android:layout_marginLeft="135dp"
                                                   <Button
     android:layout marginStart="135dp"
                                                       android:id="@+id/btnShare2"
       android:layout marginTop="57dp"
       android:text="Fetching Location"
                                                android:layout width="wrap content"
       android:textSize="10sp" />
   <Button
                                                android:layout height="wrap content"
       android:id="@+id/btnShare"
                                                       android:text="Share"
```

```
android:layout below="@+id/iv1"
                                                public class MainActivity extends
                                                AppCompatActivity
android:layout alignLeft="@+id/iv1"
                                                   implements
                                                GoogleApiClient.OnConnectionFailedListe
android:layout alignStart="@+id/iv1"
                                                ner, Google ApiClient. Connection Callbacks
       android:layout marginTop="21dp"
/>
                                                   TextView tvData;
</RelativeLayout>
                                                   Button
                                                btnShare,btnShare2,btnTakePic;
MainActivity.java:
                                                   GoogleApiClient gac;
                                                   ImageView iv1;
package
com.example.reshamverliani.sharemylocat
                                                   Location loc;
ion;
                                                   Bitmap photo;
import android.content.Intent;
                                                   @Override
import android.graphics.Bitmap;
                                                   protected void onCreate (Bundle
import android.location.Address;
                                                savedInstanceState) {
import android.location.Geocoder;
import android.location.Location;
                                                super.onCreate(savedInstanceState);
import android.net.Uri;
import android.provider.MediaStore;
                                                setContentView(R.layout.activity main);
                                                       tvData = (TextView)
import
android.support.v7.app.AppCompatActivit
                                                findViewById(R.id.tvData);
                                                       btnShare = (Button)
V;
import android.os.Bundle;
                                                findViewById(R.id.btnShare);
import android.view.View;
import android.widget.Button;
                                                btnShare2= (Button) findViewById (R.id.btn
import android.widget.ImageView;
                                                Share2);
import android.widget.TextView;
import android.widget.Toast;
                                                btnTakePic= (Button) findViewById(R.id.bt
                                                nTakePic);
import
                                                iv1=(ImageView) findViewById(R.id.iv1);
com.google.android.gms.common.Connectio
nResult:
                                                       GoogleApiClient.Builder builder
import
                                                = new GoogleApiClient.Builder(this);
com.google.android.gms.common.api.Googl
eApiClient;
                                                builder.addApi(LocationServices.API);
import
com.google.android.gms.location.Locatio
                                                builder.addOnConnectionFailedListener(t
nServices;
                                                his);
import
com.google.android.gms.vision.barcode.B
                                                builder.addConnectionCallbacks(this);
                                                       gac = builder.build();
arcode;
                                                       btnShare.setOnClickListener(new
import java.io.File;
                                                View.OnClickListener() {
import java.io.FileNotFoundException;
                                                           @Override
import java.io.FileOutputStream;
                                                           public void onClick(View
import java.io.IOException;
                                                view) {
                                                               Intent i=new
import java.util.List;
                                                Intent(Intent.ACTION SEND);
import java.util.Locale;
                                                               i.setType("text/plain");
```

```
i.putExtra(Intent.EXTRA TEXT, tvData.get
                                                requestCode, int resultCode, Intent
Text().toString());
                                                data) {
               startActivity(i);
          }
                                                super.onActivityResult(requestCode,
       });
                                                resultCode, data);
      btnShare2.setOnClickListener(new
                                                      if(requestCode==123 &&
View.OnClickListener() {
                                                resultCode==RESULT OK) {
           @Override
           public void onClick(View
                                               photo=(Bitmap)data.getExtras().get("dat
view) {
                                               a");
              File f= new
                                                          iv1.setImageBitmap(photo);
File(getExternalCacheDir(),"p1.png");
                                                      }
               try {
                   FileOutputStream
                                                  @Override
fos=new FileOutputStream(f);
                                                  protected void onResume() {
                                                      super.onResume();
photo.compress(Bitmap.CompressFormat.PN
                                                      if(gac!=null) gac.connect();
G, 100, fos);
                   fos.close();
                                                  @Override
               } catch (Exception e) {
                                                  protected void onPause() {
                   e.printStackTrace();
                                                      super.onPause();
                                                      if(gac!=null) gac.disconnect();
               Intent i= new
Intent(Intent.ACTION SEND);
                                                  @Override
               i.setType("image/*");
                                                  public void onConnected(Bundle
                                               bundle) {
i.putExtra(Intent.EXTRA TEXT, tvData.get
                                               loc=LocationServices.FusedLocationApi.g
Text().toString());
                                                etLastLocation (gac);
i.putExtra(Intent. EXTRA STREAM,
                                                      if(loc!=null) {
Uri.fromFile(f));
                                                        double lat=loc.getLatitude();
               startActivity(i);
                                                          double
                                                lon=loc.getLongitude();
           }
       });
                                                           tvData.setText(lat+" "+lon);
                                                          Geocoder q=new
                                               Geocoder(this, Locale.ENGLISH);
btnTakePic.setOnClickListener(new
View.OnClickListener() {
                                                          try {
                                                              List<Address>
          @Override
           public void onClick(View
                                               la=q.getFromLocation(lat,lon,1);
view) {
                                                               Address add=la.get(0);
              Intent i=new
                                                               String
Intent(MediaStore.ACTION IMAGE CAPTURE)
                                               msg=add.getCountryName()
                                                "+add.getAdminArea()+"
startActivityForResult(i,123);
                                                "+add.getSubAdminArea()+"
                                                "+add.getLocality()+" "
       });
  }//end of oncreate()
                                                +add.getSubLocality()+"
   @Override
                                                "+add.getThoroughfare();
```

protected void onActivityResult(int

SCREENSHOT:



9(B) PROGRAM:

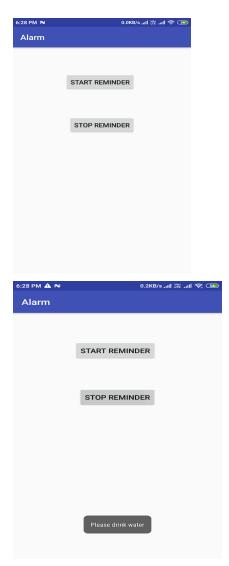
```
MainActivity.xml:
    <?xml version="1.0" encoding="utf-8"?>
    <RelativeLayout
    xmlns:android="http://schemas.android.c
    om/apk/res/android"</pre>
```

```
/tools"
   android:id="@+id/activity main"
   android:layout width="match parent"
   android:layout height="match parent"
android:paddingBottom="@dimen/activity
vertical margin"
android:paddingLeft="@dimen/activity ho
rizontal margin"
android:paddingRight="@dimen/activity h
orizontal margin"
android:paddingTop="@dimen/activity ver
tical margin"
tools:context="com.example.reshamverlia
ni.alarm.MainActivity">
   <Button
       android:id="@+id/btnStop"
android:layout_width="wrap_content"
android:layout height="wrap content"
       android:layout marginTop="69dp"
       android:text="Stop Reminder"
android:layout below="@+id/btnStart"
android:layout centerHorizontal="true"
/>
   <But.ton
       android:id="@+id/btnStart"
android:layout_width="wrap_content"
android:layout height="wrap content"
       android:layout marginTop="55dp"
       android:text="Start Reminder"
android:layout alignParentTop="true"
android:layout alignRight="@+id/btnStop
```

xmlns:tools="http://schemas.android.com

```
android:layout alignEnd="@+id/btnStop"
                                                am.set(AlarmManager.RTC WAKEUP, time, pi)
</RelativeLayout>
MainActivity.java:
                                                       });
package
                                                       btnStop.setOnClickListener(new
                                                View.OnClickListener() {
com.example.reshamverliani.alarm;
import android.app.AlarmManager;
                                                           @Override
import android.app.PendingIntent;
                                                           public void onClick(View
import android.content.Intent;
                                                view) {
                                                               am.cancel(pi);
android.support.v7.app.AppCompatActivit
                                                       });
import android.os.Bundle;
                                                   }
import android.view.View;
                                                }
import android.widget.Button;
                                                MyReciever.java:
public class MainActivity extends
                                                package
                                                com.example.reshamverliani.alarm;
AppCompatActivity {
                                                import android.app.AlarmManager;
   Button btnStart,btnStop;
   @Override
                                                Import android.app.NotificationManager;
  protected void onCreate(Bundle
                                                import android.app.PendingIntent;
savedInstanceState) {
                                                import
                                                android.content.BroadcastReceiver;
                                                import android.content.Context;
super.onCreate(savedInstanceState);
                                                import android.content.Intent;
setContentView(R.layout.activity main);
                                                import android.media.MediaPlayer;
                                                import
btnStart=(Button) findViewById(R.id.btnS
                                                android.support.v4.app.NotificationComp
tart);
                                                at;
                                                import android.widget.Toast;
btnStop=(Button) findViewById(R.id.btnSt
                                                import java.util.Date;
(go);
                                                import static
       Intent i=new
                                                android.content.Context.ALARM SERVICE;
Intent (MainActivity.this, MyReciever.cla
                                                public class MyReciever extends
                                                BroadcastReceiver {
       final PendingIntent
pi=PendingIntent.getBroadcast(this,1234
                                                   MediaPlayer mp;
                                                   public MyReciever() {}
       final AlarmManager
                                                   @Override
am=(AlarmManager)getSystemService(ALARM
                                                   public void onReceive(Context
SERVICE);
                                                context, Intent intent) {
       btnStart.setOnClickListener(new
                                                       Toast.makeText(context, "Please
View.OnClickListener() {
                                                drink water",
                                                Toast. LENGTH SHORT) . show();
           @Override
           public void onClick(View
                                                       NotificationCompat.Builder
view) {
                                                builder=new
               long
                                                NotificationCompat.Builder(context);
time=System.currentTimeMillis()+10000;
```

```
builder.setSmallIcon(android.R.drawable
.ic_dialog_alert);
       builder.setContentText("Water
Reminder");
       builder.setSubText("Please Drink
Water"+new Date());
       NotificationManager
nm= (NotificationManager) context.getSyst
emService(Context.NOTIFICATION_SERVICE)
       nm.notify(1,builder.build());
mp=MediaPlayer.create(context,R.raw.ala
rm);
       mp.start();
       new Thread(new Runnable() {
           @Override
           public void run() {
               try {
                   Thread. sleep (3000);
               } catch
(InterruptedException e) {
               e.printStackTrace();
               mp.stop();
           }
       }).start();
       Intent i=new
Intent(context, MyReciever.class);
        PendingIntent
pi=PendingIntent.getBroadcast(context,1
234,i,0);
        AlarmManager
am=(AlarmManager)context.getSystemServi
ce (ALARM SERVICE);
       long
time=System.currentTimeMillis()+500;
am.set(AlarmManager.RTC WAKEUP, time, pi)
SCREENSHOTS:
```



NOTIFICATION OF ALERT:

