**ANDROID PROGRAM TO IMPLEMENT CALENDAR**

**MainActivity.java**

package com.example.student.myapplication;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import android.widget.CalendarView;

import android.widget.CalendarView.OnDateChangeListener;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

CalendarView calendar;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

initializeCalendar();

}

public void initializeCalendar() {

calendar = (CalendarView) findViewById(R.id.calendar);

calendar.setShowWeekNumber(false);

calendar.setFirstDayOfWeek(1);

calendar.setSelectedWeekBackgroundColor(getResources().getColor(R.color.green));

calendar.setUnfocusedMonthDateColor(getResources().getColor(R.color.transparent));

calendar.setWeekSeparatorLineColor(getResources().getColor(R.color.transparent));

calendar.setSelectedDateVerticalBar(R.color.darkgreen);

calendar.setOnDateChangeListener(new OnDateChangeListener() {

//show the selected date as a toast

@Override

public void onSelectedDayChange(CalendarView view, int year, int month, int day) {

Toast.makeText(getApplicationContext(), day + "/" + month + "/" + year, Toast.LENGTH\_LONG).show();

}

});

}

}

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

android:paddingBottom="@dimen/activity\_vertical\_margin"

tools:context="com.example.student.myapplication.MainActivity"

android:background="@color/grey"

android:orientation="vertical" >

<CalendarView

android:id="@+id/calendar"

android:layout\_margin="10dp"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:weekNumberColor="#15d8df"

android:weekSeparatorLineColor="#010f10"

android:background="#ddd313"

android:focusedMonthDateColor="#0f2e91"

android:forceHasOverlappingRendering="true" />

</RelativeLayout>

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.student.myapplication">

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

**ANDROID PROGRAM TO IMPLEMENT ALARM CLOCK**

**MainActivity.java**

package com.example.hp\_pc.alarmclock;

import android.app.AlarmManager;

import android.app.PendingIntent;

import android.content.Intent;

import android.os.Bundle;

import android.support.v7.app.AppCompatActivity;

import android.util.Log;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.Button;

import android.widget.TimePicker;

import java.util.Calendar;

public class MainActivity extends AppCompatActivity implements OnClickListener{

TimePicker timePicker;

Button setAlarmButton, removeAlarmButton;

AlarmManager alarmManager ;

static MainActivity inst;

Intent intent;

PendingIntent pendingIntent;

public boolean stopAlarm;

private final String LOG\_TAG = "APPLICATION";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

init();

}

public static MainActivity instance(){

return inst;

}

@Override

protected void onStart() {

super.onStart();

inst = this;

}

private void init(){

timePicker = (TimePicker)findViewById(R.id.timePicker);

setAlarmButton = (Button) findViewById(R.id.set\_alarm\_button);

setAlarmButton.setOnClickListener(this);

removeAlarmButton = (Button) findViewById(R.id.remove\_alarm\_button);

removeAlarmButton.setOnClickListener(this);

}

@Override

public void onClick(View view) {

switch (view.getId()){

case R.id.set\_alarm\_button:

int hour, min;

hour = min = 0;

if(android.os.Build.VERSION.SDK\_INT >= 23){

hour = timePicker.getHour();

min = timePicker.getMinute();

}else if (android.os.Build.VERSION.SDK\_INT < 23){

hour = timePicker.getCurrentHour();

min = timePicker.getCurrentMinute();

}

Log.d(LOG\_TAG,hour + ":" + min);

Calendar calendar = Calendar.getInstance();

calendar.set(Calendar.HOUR\_OF\_DAY, hour);

calendar.set(Calendar.MINUTE, min);

calendar.set(Calendar.SECOND,0);

alarmManager = (AlarmManager) getSystemService(ALARM\_SERVICE);

intent = new Intent(MainActivity.this, AlarmReceiver.class);

pendingIntent = PendingIntent.getBroadcast(MainActivity.this, 0, intent, 0);

alarmManager.setExact(AlarmManager.RTC\_WAKEUP, calendar.getTimeInMillis(), pendingIntent);

stopAlarm = false;

Log.d(LOG\_TAG,"ALARM SET");

break;

case R.id.remove\_alarm\_button:

alarmManager.cancel(pendingIntent);

stopAlarm = true;

AlarmReceiver alarmReceiver = AlarmReceiver.getInst();

alarmReceiver.stopRinging();

Log.d(LOG\_TAG,"ALARM CANCELLED");

break;

}

}

}

**Notifier.java**

package com.example.hp\_pc.alarmclock;

import android.app.IntentService;

import android.app.NotificationManager;

import android.app.PendingIntent;

import android.content.Context;

import android.content.Intent;

import android.support.v4.app.NotificationCompat;

import android.util.Log;

public class Notifier extends IntentService {

private NotificationManager alarmNotificationManager;

public Notifier(){

super("Notifier");

}

@Override

protected void onHandleIntent(Intent intent) {

sendNotification("ALARM IS SET OF!");

}

private void sendNotification(String msg) {

Log.d("APP", "Preparing to send notification...: " + msg);

alarmNotificationManager = (NotificationManager) this

.getSystemService(Context.NOTIFICATION\_SERVICE);

PendingIntent contentIntent = PendingIntent.getActivity(this, 0,

new Intent(this, MainActivity.class), 0);

NotificationCompat.Builder alamNotificationBuilder = new NotificationCompat.Builder(

this).setContentTitle("Alarm").setSmallIcon(android.R.drawable.ic\_lock\_idle\_alarm)

.setStyle(new NotificationCompat.BigTextStyle().bigText(msg))

.setContentText(msg);

alamNotificationBuilder.setContentIntent(contentIntent);

alarmNotificationManager.notify(1, alamNotificationBuilder.build());

Log.d("APPLICATION", "Notification sent.");

}

}

**AlarmReceiver.java**

package com.example.hp\_pc.alarmclock;

import android.app.Activity;

import android.content.ComponentName;

import android.content.Context;

import android.content.Intent;

import android.media.Ringtone;

import android.media.RingtoneManager;

import android.net.Uri;

import android.support.v4.content.WakefulBroadcastReceiver;

public class AlarmReceiver extends WakefulBroadcastReceiver {

private final String LOG\_TAG = "APPLICATION";

private static AlarmReceiver inst;

private Ringtone ringtone;

public AlarmReceiver() {

super();

inst = this;

}

public static AlarmReceiver getInst() {

return inst;

}

@Override

public void onReceive(Context context, Intent intent) {

Uri uri = RingtoneManager.getDefaultUri(RingtoneManager.TYPE\_ALARM);

ringtone = RingtoneManager.getRingtone(context, uri);

ringtone.play();

ComponentName comp = new ComponentName(context.getPackageName(),

Notifier.class.getName());

startWakefulService(context, (intent.setComponent(comp)));

setResultCode(Activity.RESULT\_OK);

}

public void stopRinging() {

if (ringtone != null)

if (ringtone.isPlaying())

ringtone.stop();

}

}

**activitymain.xml**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingBottom="@dimen/activity\_vertical\_margin"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context="com.example.hp\_pc.alarmclock.MainActivity">

<TimePicker

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/timePicker"

android:layout\_alignParentTop="true"

android:layout\_centerHorizontal="true" />

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginStart="10dp"

android:layout\_marginEnd="10dp"

android:text="@string/set\_alarm"

android:id="@+id/set\_alarm\_button"

android:layout\_below="@+id/timePicker"

android:layout\_centerHorizontal="true" />

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/remove\_alarm"

android:layout\_marginStart="10dp"

android:layout\_marginEnd="10dp"

android:id="@+id/remove\_alarm\_button"

android:layout\_below="@+id/set\_alarm\_button"

android:layout\_centerHorizontal="true" />

</RelativeLayout>

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.hp\_pc.alarmclock">

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

<receiver android:name=".AlarmReceiver"/>

<service

android:name=".Notifier"

android:enabled="true" />

</application>

</manifest>

**ANDROID PROGRAM FOR SMS APPLICATION**

**MainActivity.java**

package com.example.student.message;

import android.content.BroadcastReceiver;

import android.content.IntentFilter;

import android.os.Bundle;

import android.app.Activity;

import android.telephony.SmsManager;

import android.util.Log;

import android.view.Menu;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import android.app.PendingIntent;

import android.content.Context;

import android.content.Intent;

public class MainActivity extends Activity {

Button sendBtn;

EditText txtphoneNo;

EditText txtMessage;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

sendBtn = (Button) findViewById(R.id.btnSendSMS);

txtphoneNo = (EditText) findViewById(R.id.editText);

txtMessage = (EditText) findViewById(R.id.editText2);

sendBtn.setOnClickListener(new View.OnClickListener() {

public void onClick(View view) {

sendSMSMessage();

}

});

}

protected void sendSMSMessage() {

Log.i("Send SMS", "");

String phoneNo = txtphoneNo.getText().toString();

String message = txtMessage.getText().toString();

try {

String SENT = "sent";

String DELIVERED = "delivered";

Intent sentIntent = new Intent(SENT);

/\*Create Pending Intents\*/

PendingIntent sentPI = PendingIntent.getBroadcast(

getApplicationContext(), 0, sentIntent,

PendingIntent.FLAG\_UPDATE\_CURRENT);

Intent deliveryIntent = new Intent(DELIVERED);

PendingIntent deliverPI = PendingIntent.getBroadcast(

getApplicationContext(), 0, deliveryIntent,

PendingIntent.FLAG\_UPDATE\_CURRENT);

/\* Register for SMS send action \*/

registerReceiver(new BroadcastReceiver() {

@Override

public void onReceive(Context context, Intent intent) {

String result = "";

switch (getResultCode()) {

case Activity.RESULT\_OK:

result = "Transmission successful";

break;

case SmsManager.RESULT\_ERROR\_GENERIC\_FAILURE:

result = "Transmission failed";

break;

case SmsManager.RESULT\_ERROR\_RADIO\_OFF:

result = "Radio off";

break;

case SmsManager.RESULT\_ERROR\_NULL\_PDU:

result = "No PDU defined";

break;

case SmsManager.RESULT\_ERROR\_NO\_SERVICE:

result = "No service";

break;

}

Toast.makeText(getApplicationContext(), result,

Toast.LENGTH\_LONG).show();

}

}, new IntentFilter(SENT));

/\* Register for Delivery event \*/

registerReceiver(new BroadcastReceiver() {

@Override

public void onReceive(Context context, Intent intent) {

Toast.makeText(getApplicationContext(), "Deliverd",

Toast.LENGTH\_LONG).show();

}

}, new IntentFilter(DELIVERED));

SmsManager smsManager = SmsManager.getDefault();

smsManager.sendTextMessage(phoneNo, null, message,sentPI,deliverPI);

Toast.makeText(getApplicationContext(), "SMS sent.", Toast.LENGTH\_LONG).show();

}

catch (Exception e) {

Toast.makeText(getApplicationContext(), "SMS faild, please try again.", Toast.LENGTH\_LONG).show();

e.printStackTrace();

}

}}

**activitymain.java**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingBottom="@dimen/activity\_vertical\_margin"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context="com.example.student.message.MainActivity">

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/editText"

android:hint="Enter Phone Number"

android:textColorHint="@color/abc\_primary\_text\_material\_dark"

android:text="Phone no"

android:background="#b3dfea"

android:layout\_alignParentTop="true"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="57dp" />

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/editText2"

android:textColorHint="@color/abc\_primary\_text\_material\_dark"

android:hint="Enter SMS"

android:background="#f0b4b4"

android:paddingLeft="70dp"

android:paddingRight="70dp"

android:layout\_marginTop="59dp"

android:layout\_below="@+id/editText"

android:layout\_centerHorizontal="true" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Send Sms"

android:id="@+id/btnSendSMS"

android:layout\_below="@+id/editText2"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="48dp" />

</RelativeLayout>

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.student.message">

<uses-permission android:name="android.permission.SEND\_SMS" />

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

**ANDROID PROGRAM TO TOGGLE BETWEEN SILENT AND NORMAL**

**MainActivity.java**

package com.hp-pc.silent;

import android.content.Context;

import android.media.AudioManager;

import android.os.Bundle;

import android.support.v7.app.AppCompatActivity;

import android.view.View;

import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {

ToggleButton toggleButton;

AudioManager audio;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

toggleButton = (ToggleButton) findViewById(R.id.toggleButton);

toggleButton.setTextOn("");

toggleButton.setTextOff("");

audio = (AudioManager)getSystemService(Context.AUDIO\_SERVICE);

if(audio.getRingerMode()==AudioManager.RINGER\_MODE\_NORMAL)

toggleButton.setBackgroundResource(R.drawable.normal);

else {

toggleButton.setBackgroundResource(R.drawable.silent);

toggleButton.setChecked(true);

}

toggleButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

if(toggleButton.isChecked()) {

toggleButton.setBackgroundResource(R.drawable.silent);

audio.setRingerMode(AudioManager.RINGER\_MODE\_SILENT);

}else{

toggleButton.setBackgroundResource(R.drawable.normal);

audio.setRingerMode(AudioManager.RINGER\_MODE\_NORMAL);

}

}

});

}

}

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingBottom="@dimen/activity\_vertical\_margin"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context="com.hp-pc.silent.MainActivity">

<ToggleButton

android:layout\_width="150dp"

android:layout\_height="150dp"

android:id="@+id/toggleButton"

android:text=""

android:textOn=""

android:textOff=""

android:layout\_centerVertical="true"

android:layout\_centerHorizontal="true" />

</RelativeLayout>

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.hp-pc.silent">

<uses-permission android:name="android.permission.WRITE\_SETTINGS" />

<uses-permission android:name="android.permission.CHANGE\_CONFIGURATION" />

<uses-permission android:name="android.permission.MODIFY\_AUDIO\_SETTINGS" />

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

**ANDROID PROGRAM TO TOGGLE BLUETOOTH ON AND OFF**

**MainActivity.java**

package com.example.hp\_pc.togglebluetooth;

import android.app.Activity;

import android.bluetooth.BluetoothAdapter;

import android.content.Intent;

import android.os.Bundle;

import android.widget.CompoundButton;

import android.widget.Switch;

import android.widget.TextView;

public class MainActivity extends Activity {

Switch switchButton;

TextView textview;

BluetoothAdapter bluetoothadapter;

int i = 1;

Intent bluetoothIntent;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

switchButton = (Switch)findViewById(R.id.switch1);

textview = (TextView)findViewById(R.id.textView1);

bluetoothadapter = BluetoothAdapter.getDefaultAdapter();

switchButton.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {

@Override

public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {

// TODO Auto-generated method stub

if(isChecked)

{

BluetoothEnable();

}

else {

BluetoothDisable();

}

}

});

}

public void BluetoothEnable(){

bluetoothIntent = new Intent(BluetoothAdapter.ACTION\_REQUEST\_ENABLE);

startActivityForResult(bluetoothIntent, i);

textview.setText("Bluetooth ON");

}

public void BluetoothDisable(){

bluetoothadapter.disable();

textview.setText("Bluetooth OFF");

}

}

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingBottom="@dimen/activity\_vertical\_margin"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context="com.example.hp\_pc.togglebluetooth.MainActivity">

<Switch

android:id="@+id/switch1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerHorizontal="true"

android:layout\_centerVertical="true"

/>

<TextView

android:id="@+id/textView1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_above="@+id/switch1"

android:layout\_centerHorizontal="true"

android:layout\_marginBottom="62dp"

android:gravity="center"

android:text="Bluetooth status show here"

android:textAppearance="?android:attr/textAppearanceLarge" />

</RelativeLayout>

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.hp\_pc.togglebluetooth">

<uses-permission android:name="android.permission.BLUETOOTH" />

<uses-permission android:name="android.permission.BLUETOOTH\_ADMIN" />

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

**ANDROID PROGRAM TO IMPLEMENT CONTACT APP**

**MainActivity.java**

package com.example.hp\_pc.contactapp;

import java.util.ArrayList;

import android.app.Activity;

import android.content.ContentProviderOperation;

import android.content.Intent;

import android.content.OperationApplicationException;

import android.os.Bundle;

import android.os.RemoteException;

import android.provider.ContactsContract;

import android.provider.ContactsContract.CommonDataKinds;

import android.provider.ContactsContract.CommonDataKinds.Email;

import android.provider.ContactsContract.CommonDataKinds.Phone;

import android.provider.ContactsContract.CommonDataKinds.StructuredName;

import android.provider.ContactsContract.RawContacts;

import android.support.v7.app.AppCompatActivity;

import android.view.Menu;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

// Creating a button click listener for the "Add Contact" button

OnClickListener addClickListener = new OnClickListener() {

@Override

public void onClick(View v) {

// Getting reference to Name EditText

EditText etName = (EditText) findViewById(R.id.et\_name);

// Getting reference to Mobile EditText

EditText etMobile = (EditText) findViewById(R.id.et\_mobile\_phone);

// Getting reference to HomePhone EditText

EditText etHomePhone = (EditText) findViewById(R.id.et\_home\_phone);

// Getting reference to HomeEmail EditText

EditText etHomeEmail = (EditText) findViewById(R.id.et\_home\_email);

// Getting reference to WorkEmail EditText

EditText etWorkEmail = (EditText) findViewById(R.id.et\_work\_email);

ArrayList<ContentProviderOperation> ops = new ArrayList<ContentProviderOperation>();

int rawContactID = ops.size();

// Adding insert operation to operations list

// to insert a new raw contact in the table ContactsContract.RawContacts

ops.add(ContentProviderOperation.newInsert(ContactsContract.RawContacts.CONTENT\_URI)

.withValue(ContactsContract.RawContacts.ACCOUNT\_TYPE, null)

.withValue(RawContacts.ACCOUNT\_NAME, null)

.build());

// Adding insert operation to operations list

// to insert display name in the table ContactsContract.Data

ops.add(ContentProviderOperation.newInsert(ContactsContract.Data.CONTENT\_URI)

.withValueBackReference(ContactsContract.Data.RAW\_CONTACT\_ID, rawContactID)

.withValue(ContactsContract.Data.MIMETYPE, StructuredName.CONTENT\_ITEM\_TYPE)

.withValue(StructuredName.DISPLAY\_NAME, etName.getText().toString())

.build());

// Adding insert operation to operations list

// to insert Mobile Number in the table ContactsContract.Data

ops.add(ContentProviderOperation.newInsert(ContactsContract.Data.CONTENT\_URI)

.withValueBackReference(ContactsContract.Data.RAW\_CONTACT\_ID, rawContactID)

.withValue(ContactsContract.Data.MIMETYPE, Phone.CONTENT\_ITEM\_TYPE)

.withValue(Phone.NUMBER, etMobile.getText().toString())

.withValue(Phone.TYPE, CommonDataKinds.Phone.TYPE\_MOBILE)

.build());

// Adding insert operation to operations list

// to insert Home Phone Number in the table ContactsContract.Data

ops.add(ContentProviderOperation.newInsert(ContactsContract.Data.CONTENT\_URI)

.withValueBackReference(ContactsContract.Data.RAW\_CONTACT\_ID, rawContactID)

.withValue(ContactsContract.Data.MIMETYPE, Phone.CONTENT\_ITEM\_TYPE)

.withValue(Phone.NUMBER, etHomePhone.getText().toString())

.withValue(Phone.TYPE, Phone.TYPE\_HOME)

.build());

// Adding insert operation to operations list

// to insert Home Email in the table ContactsContract.Data

ops.add(ContentProviderOperation.newInsert(ContactsContract.Data.CONTENT\_URI)

.withValueBackReference(ContactsContract.Data.RAW\_CONTACT\_ID, rawContactID)

.withValue(ContactsContract.Data.MIMETYPE, Email.CONTENT\_ITEM\_TYPE)

.withValue(Email.ADDRESS, etHomeEmail.getText().toString())

.withValue(Email.TYPE, Email.TYPE\_HOME)

.build());

// Adding insert operation to operations list

// to insert Work Email in the table ContactsContract.Data

ops.add(ContentProviderOperation.newInsert(ContactsContract.Data.CONTENT\_URI)

.withValueBackReference(ContactsContract.Data.RAW\_CONTACT\_ID, rawContactID)

.withValue(ContactsContract.Data.MIMETYPE, Email.CONTENT\_ITEM\_TYPE)

.withValue(Email.ADDRESS, etWorkEmail.getText().toString())

.withValue(Email.TYPE, Email.TYPE\_WORK)

.build());

try{

// Executing all the insert operations as a single database transaction

getContentResolver().applyBatch(ContactsContract.AUTHORITY, ops);

Toast.makeText(getBaseContext(), "Contact is successfully added", Toast.LENGTH\_SHORT).show();

}catch (RemoteException e) {

e.printStackTrace();

}catch (OperationApplicationException e) {

e.printStackTrace();

}

}

};

// Creating a button click listener for the "Add Contact" button

OnClickListener contactsClickListener = new OnClickListener() {

@Override

public void onClick(View v) {

// Creating an intent to open Android's Contacts List

Intent contacts = new Intent(Intent.ACTION\_VIEW,ContactsContract.Contacts.CONTENT\_URI);

// Starting the activity

startActivity(contacts);

}

};

// Getting reference to "Add Contact" button

Button btnAdd = (Button) findViewById(R.id.btn\_add);

// Getting reference to "Contacts List" button

Button btnContacts = (Button) findViewById(R.id.btn\_contacts);

// Setting click listener for the "Add Contact" button

btnAdd.setOnClickListener(addClickListener);

// Setting click listener for the "List Contacts" button

btnContacts.setOnClickListener(contactsClickListener);

}

}

**FirstPage.java**

package com.example.hp\_pc.contactapp;

import android.app.Activity;

import android.content.Context;

import android.content.Intent;

import android.os.Bundle;

import android.provider.ContactsContract;

import android.view.View;

import android.widget.Button;

public class Firstpage extends Activity {

Button button,button2,button3;

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.main);

final Context context = this;

button = (Button) findViewById(R.id.button1);

button2=(Button) findViewById(R.id.button2);

button.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View arg0) {

Intent intent = new Intent(context, MainActivity.class);

startActivity(intent);

}

});

View.OnClickListener contactsClickListener = new View.OnClickListener() {

@Override

public void onClick(View v) {

// Creating an intent to open Android's Contacts List

Intent contacts = new Intent(Intent.ACTION\_VIEW, ContactsContract.Contacts.CONTENT\_URI);

// Starting the activity

startActivity(contacts);

}

};

button2.setOnClickListener(contactsClickListener);

}

public void search(View v)

{

Intent intent = new Intent(this, SearchActivity.class);

startActivity(intent);

}

}

**SearchActivity.java**

package com.example.hp\_pc.contactapp;

import android.app.Activity;

import android.content.ContentResolver;

import android.content.Intent;

import android.database.Cursor;

import android.graphics.Bitmap;

import android.net.Uri;

import android.os.AsyncTask;

import android.os.Bundle;

import android.provider.ContactsContract;

import android.provider.MediaStore;

import android.util.Log;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ListView;

import android.widget.SearchView;

import android.widget.Toast;

import java.io.IOException;

import java.util.ArrayList;

import java.util.List;

/\*\*

\* Created by hp-pc on 16-09-2016.

\*/

public class SearchActivity extends Activity {

// ArrayList

ArrayList<SelectUser> selectUsers;

List<SelectUser> temp;

// Contact List

ListView listView;

// Cursor to load contacts list

Cursor phones, email;

// Pop up

ContentResolver resolver;

SearchView search;

SelectUserAdapter adapter;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity);

selectUsers = new ArrayList<SelectUser>();

resolver = this.getContentResolver();

listView = (ListView) findViewById(R.id.contacts\_list);

phones = getContentResolver().query(ContactsContract.CommonDataKinds.Phone.CONTENT\_URI, null, null, null, ContactsContract.CommonDataKinds.Phone.DISPLAY\_NAME + " ASC");

LoadContact loadContact = new LoadContact();

loadContact.execute();

search = (SearchView) findViewById(R.id.searchView);

//\*\*\* setOnQueryTextListener \*\*\*

search.setOnQueryTextListener(new SearchView.OnQueryTextListener() {

@Override

public boolean onQueryTextSubmit(String query) {

// TODO Auto-generated method stub

return false;

}

@Override

public boolean onQueryTextChange(String newText) {

// TODO Auto-generated method stub

adapter.filter(newText);

return false;

}

});

// String filename = listView.getAdapter().getItem(currentSongIndex).toString();

}

// Load data on background

class LoadContact extends AsyncTask<Void, Void, Void> {

@Override

protected void onPreExecute() {

super.onPreExecute();

}

@Override

protected Void doInBackground(Void... voids) {

// Get Contact list from Phone

if (phones != null) {

Log.e("count", "" + phones.getCount());

if (phones.getCount() == 0) {

Toast.makeText(SearchActivity.this, "No contacts in your contact list.", Toast.LENGTH\_LONG).show();

}

while (phones.moveToNext()) {

Bitmap bit\_thumb = null;

String id = phones.getString(phones.getColumnIndex(ContactsContract.CommonDataKinds.Phone.CONTACT\_ID));

String name = phones.getString(phones.getColumnIndex(ContactsContract.CommonDataKinds.Phone.DISPLAY\_NAME));

String phoneNumber = phones.getString(phones.getColumnIndex(ContactsContract.CommonDataKinds.Phone.NUMBER));

String EmailAddr = phones.getString(phones.getColumnIndex(ContactsContract.CommonDataKinds.Email.DATA2));

String image\_thumb = phones.getString(phones.getColumnIndex(ContactsContract.CommonDataKinds.Phone.PHOTO\_THUMBNAIL\_URI));

try {

if (image\_thumb != null) {

bit\_thumb = MediaStore.Images.Media.getBitmap(resolver, Uri.parse(image\_thumb));

} else {

Log.e("No Image Thumb", "--------------");

}

} catch (IOException e) {

e.printStackTrace();

}

SelectUser selectUser = new SelectUser();

selectUser.setThumb(bit\_thumb);

selectUser.setName(name);

selectUser.setPhone(phoneNumber);

selectUser.setEmail(id);

selectUser.setCheckedBox(false);

selectUsers.add(selectUser);

}

} else {

Log.e("Cursor close 1", "----------------");

}

//phones.close();

return null;

}

private void call()

{

Intent in=new Intent(Intent.ACTION\_CALL,Uri.parse("0000000000"));

try{

startActivity(in);

}

catch (android.content.ActivityNotFoundException ex){

Toast.makeText(getApplicationContext(),"yourActivity is not founded",Toast.LENGTH\_SHORT).show();

}

}

@Override

protected void onPostExecute(Void aVoid) {

super.onPostExecute(aVoid);

adapter = new SelectUserAdapter(selectUsers, SearchActivity.this);

listView.setAdapter(adapter);

listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {

public void onItemClick(AdapterView<?> parentAdapter, View view, int i,

long id) {

int flag=1;

SelectUser data = selectUsers.get(i);

Intent intent = new Intent(Intent.ACTION\_DIAL);

intent.setData(Uri.parse("tel:" + data.getPhone()));

if (intent.resolveActivity(getPackageManager()) != null) {

startActivity(intent);

}

}

});

listView.setOnItemLongClickListener(new AdapterView.OnItemLongClickListener() {

public boolean onItemLongClick(AdapterView<?> parentAdapter1, View view1, int i1,

long id1) {

SelectUser data1 = selectUsers.get(i1);

Intent intent1 = new Intent(Intent.ACTION\_VIEW, Uri.parse("sms:" + data1.getPhone()));

intent1.putExtra("sms\_body", "");

startActivity(intent1);

return true;

}

});

listView.setFastScrollEnabled(true);

}

}

@Override

protected void onStop() {

super.onStop();

phones.close();

}

}

**SelectUser.java**

package com.example.hp\_pc.contactapp;

/\*\*

\* Created by hp-pc on 16-09-2016.

\*/

import android.graphics.Bitmap;

public class SelectUser {

String name;

public Bitmap getThumb() {

return thumb;

}

public void setThumb(Bitmap thumb) {

this.thumb = thumb;

}

Bitmap thumb;

public String getPhone() {

return phone;

}

public void setPhone(String phone) {

this.phone = phone;

}

String phone;

public Boolean getCheckedBox() {

return checkedBox;

}

public void setCheckedBox(Boolean checkedBox) {

this.checkedBox = checkedBox;

}

Boolean checkedBox = false;

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

String email;

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

}

**SelectUserAdapter.java**

package com.example.hp\_pc.contactapp;

import android.annotation.TargetApi;

import android.content.Context;

import android.graphics.Bitmap;

import android.graphics.BitmapFactory;

import android.os.Build;

import android.util.Log;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.BaseAdapter;

import android.widget.CheckBox;

import android.widget.ImageView;

import android.widget.TextView;

import java.util.ArrayList;

import java.util.List;

import java.util.Locale;

/\*\*

\* Created by hp-pc on 16-09-2016.

\*/

public class SelectUserAdapter extends BaseAdapter {

public List<SelectUser> \_data;

private ArrayList<SelectUser> arraylist;

Context \_c;

ViewHolder v;

public SelectUserAdapter(List<SelectUser> selectUsers, Context context) {

\_data = selectUsers;

\_c = context;

this.arraylist = new ArrayList<SelectUser>();

this.arraylist.addAll(\_data);

}

@Override

public int getCount() {

return \_data.size();

}

@Override

public Object getItem(int i) {

return \_data.get(i);

}

@Override

public long getItemId(int i) {

return i;

}

@TargetApi(Build.VERSION\_CODES.LOLLIPOP)

@Override

public View getView(int i, View convertView, ViewGroup viewGroup) {

View view = convertView;

if (view == null) {

LayoutInflater li = (LayoutInflater) \_c.getSystemService(Context.LAYOUT\_INFLATER\_SERVICE);

view = li.inflate(R.layout.contact\_info, null);

Log.e("Inside", "here--------------------------- In view1");

} else {

view = convertView;

Log.e("Inside", "here--------------------------- In view2");

}

v = new ViewHolder();

v.title = (TextView) view.findViewById(R.id.name);

v.check = (CheckBox) view.findViewById(R.id.check);

v.phone = (TextView) view.findViewById(R.id.no);

v.imageView = (ImageView) view.findViewById(R.id.pic);

final SelectUser data = (SelectUser) \_data.get(i);

v.title.setText(data.getName());

v.check.setChecked(data.getCheckedBox());

v.phone.setText(data.getPhone());

// Set image if exists

try {

if (data.getThumb() != null) {

v.imageView.setImageBitmap(data.getThumb());

} else {

v.imageView.setImageResource(R.drawable.image);

}

// Seting round image

Bitmap bm = BitmapFactory.decodeResource(view.getResources(), R.drawable.image); // Load default image

} catch (OutOfMemoryError e) {

// Add default picture

v.imageView.setImageDrawable(this.\_c.getDrawable(R.drawable.image));

//e.printStackTrace();

}

Log.e("Image Thumb", "--------------" + data.getThumb());

// Set check box listener android

v.check.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

CheckBox checkBox = (CheckBox) view;

if (checkBox.isChecked()) {

data.setCheckedBox(true);

} else {

data.setCheckedBox(false);

}

}

});

view.setTag(data);

return view;

}

// Filter Class

public void filter(String charText) {

charText = charText.toLowerCase(Locale.getDefault());

\_data.clear();

if (charText.length() == 0) {

\_data.addAll(arraylist);

} else {

for (SelectUser wp : arraylist) {

if (wp.getName().toLowerCase(Locale.getDefault())

.contains(charText)) {

\_data.add(wp);

}

}

}

notifyDataSetChanged();

}

static class ViewHolder {

ImageView imageView;

TextView title, phone;

CheckBox check;

}

}

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingBottom="@dimen/activity\_vertical\_margin"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context="com.example.hp\_pc.contactapp.MainActivity">

<EditText

android:id="@+id/et\_name"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:inputType="text"

android:hint="@string/hnt\_et\_name" />

<EditText

android:id="@+id/et\_mobile\_phone"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@id/et\_name"

android:inputType="phone"

android:hint="@string/hnt\_et\_mobile\_phone" />

<EditText

android:id="@+id/et\_home\_phone"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@id/et\_mobile\_phone"

android:inputType="phone"

android:hint="@string/hnt\_et\_home\_phone" />

<EditText

android:id="@+id/et\_work\_email"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@id/et\_home\_phone"

android:inputType="textEmailAddress"

android:hint="@string/hnt\_et\_work\_email" />

<EditText

android:id="@+id/et\_home\_email"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@id/et\_work\_email"

android:inputType="textEmailAddress"

android:hint="@string/hnt\_et\_home\_email" />

<Button

android:id="@+id/btn\_add"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@id/et\_home\_email"

android:text="@string/str\_btn\_add" />

<Button

android:id="@+id/btn\_contacts"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@id/btn\_add"

android:text="@string/str\_btn\_contacts" />

</RelativeLayout>

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.hp\_pc.contactapp">

<uses-permission android:name="android.permission.READ\_CONTACTS"/>

<uses-permission android:name="android.permission.WRITE\_CONTACTS"/>

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".Firstpage">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

<activity android:name=".MainActivity"

android:label="ADD CONTACTS">

</activity>

<activity android:name=".SearchActivity"

android:label="SEARCH CONTACTS">

</activity>

</application>

</manifest>

**ANDROID PROGRAM TO SHOW ANIMATION**

**MainActivity.java**

package com.example.hp\_pc.animation;

import android.app.Activity;

import android.content.Intent;

import android.graphics.Bitmap;

import android.graphics.BitmapFactory;

import android.graphics.Canvas;

import android.graphics.Color;

import android.os.Bundle;

import android.view.Menu;

import android.view.MenuItem;

import android.view.View;

import android.view.animation.Animation;

import android.view.animation.AnimationUtils;

import android.view.animation.TranslateAnimation;

import android.widget.ImageView;

import android.widget.Toast;

public class MainActivity extends Activity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void clockwise(View view){

ImageView image = (ImageView)findViewById(R.id.imageView1);

image.setBackgroundColor(Color.TRANSPARENT);

/\* TranslateAnimation left, right;

left = new TranslateAnimation(-480, 10, 0, 10);

right= new TranslateAnimation( 480, 10, 0, 10);

\*/

ImageView image1 = (ImageView)findViewById(R.id.imageView);

image1.setBackgroundColor(Color.TRANSPARENT);

// image.setImageResource(android.R.color.transparent);

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.myanimation);

image.startAnimation(animation);

Animation animation1 = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.myanimation);

image1.startAnimation(animation1);

}

public void zoom(View view){

ImageView image = (ImageView)findViewById(R.id.imageView1);

image.setBackgroundColor(Color.TRANSPARENT);

// image.setImageResource(android.R.color.transparent);

Animation animation1 = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.clockwise);

image.startAnimation(animation1);

ImageView image1 = (ImageView)findViewById(R.id.imageView);

image.setBackgroundColor(Color.TRANSPARENT);

// image.setImageResource(android.R.color.transparent);

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.clockwise);

image1.startAnimation(animation);

}

public void fade(View view){

ImageView image = (ImageView)findViewById(R.id.imageView1);

image.setBackgroundColor(Color.TRANSPARENT);

// image.setImageResource(android.R.color.transparent);

Animation animation1 = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.fade);

image.startAnimation(animation1);

ImageView image1 = (ImageView)findViewById(R.id.imageView);

image.setBackgroundColor(Color.TRANSPARENT);

// image.setImageResource(android.R.color.transparent);

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.fade);

image1.startAnimation(animation);

}

public void blink(View view){

ImageView image = (ImageView)findViewById(R.id.imageView1);

// image.setBackgroundColor(Color.TRANSPARENT);

Animation animation1 = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.blink);

image.startAnimation(animation1);

ImageView image1 = (ImageView)findViewById(R.id.imageView);

// image.setBackgroundColor(Color.TRANSPARENT);

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.blink);

image1.startAnimation(animation);

}

public void move(View view){

ImageView image = (ImageView)findViewById(R.id.imageView);

// image.setImageResource(android.R.color.transparent);

Animation animation1 = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.move);

image.startAnimation(animation1);

ImageView image1 = (ImageView)findViewById(R.id.imageView1);

// image.setImageResource(android.R.color.transparent);

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.moveob);

image1.startAnimation(animation);

}

public void slide(View view){

ImageView image = (ImageView)findViewById(R.id.imageView1);

// image.setImageResource(android.R.color.transparent);

Animation animation1 = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.slide);

image.startAnimation(animation1);

ImageView image1 = (ImageView)findViewById(R.id.imageView);

// image.setImageResource(android.R.color.transparent);

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.slide);

image1.startAnimation(animation);

}

public void merge(View view)

{

Intent intent = new Intent(MainActivity.this, MergeActivity.class);

startActivity(intent);

}

public void animate(View view)

{

Intent intent = new Intent(MainActivity.this, AnimateActivity.class);

startActivity(intent);

}

/\*

@Override

public boolean onCreateOptionsMenu(Menu menu) {

// Inflate the menu; this adds items to the action bar if it is present.

getMenuInflater().inflate(R.menu.menu\_main, menu);

return true;

}

@Override

public boolean onOptionsItemSelected(MenuItem item) {

// Handle action bar item clicks here. The action bar will

// automatically handle clicks on the Home/Up button, so long

// as you specify a parent activity in AndroidManifest.xml.

int id = item.getItemId();

//noinspection SimplifiableIfStatement

if (id == R.id.action\_settings) {

return true;

}

return super.onOptionsItemSelected(item);

}

\*/

}

**AnimateActivity.java**

package com.example.hp\_pc.animation;

/\*\*

\* Created by hp-pc on 06-10-2016.

\*/

import android.graphics.drawable.AnimationDrawable;

import android.support.v7.app.ActionBarActivity;

import android.os.Bundle;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.ImageView;

public class AnimateActivity extends ActionBarActivity implements OnClickListener {

private ImageView view;

private AnimationDrawable frameAnimation;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.main1);

// Type casting the Image View

view = (ImageView) findViewById(R.id.imageView);

// Setting animation\_list.xml as the background of the image view

view.setBackgroundResource(R.drawable.frame\_animation\_list);

// Type casting the Animation drawable

frameAnimation = (AnimationDrawable) view.getBackground();

//set true if you want to animate only once

frameAnimation.setOneShot(true);

findViewById(R.id.start).setOnClickListener(this);

findViewById(R.id.stop).setOnClickListener(this);

}

@Override

public void onClick(View v) {

int id = v.getId();

if(id == R.id.start){

frameAnimation.start();

}else if(id==R.id.stop){

frameAnimation.stop();

}

}

}

**MergeActivity.java**

package com.example.hp\_pc.animation;

/\*\*

\* Created by hp-pc on 06-10-2016.

\*/

import android.graphics.Bitmap;

import android.graphics.BitmapFactory;

import android.graphics.Canvas;

import android.os.Bundle;

import android.support.v7.app.ActionBarActivity;

import android.view.Menu;

import android.view.MenuItem;

import android.view.View;

import android.widget.Button;

import android.widget.ImageView;

public class MergeActivity extends ActionBarActivity {

private ImageView collageImage;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.main);

collageImage = (ImageView)findViewById(R.id.imageView3);

Button combineImage = (Button)findViewById(R.id.combineimage);

combineImage.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Bitmap bigImage = BitmapFactory.decodeResource(getResources(), R.drawable.girly);

Bitmap smallImage = BitmapFactory.decodeResource(getResources(), R.drawable.girl1);

Bitmap mergedImages = createSingleImageFromMultipleImages(bigImage, smallImage);

collageImage.setImageBitmap(mergedImages);

}

});

}

private Bitmap createSingleImageFromMultipleImages(Bitmap firstImage, Bitmap secondImage){

Bitmap result = Bitmap.createBitmap(firstImage.getWidth(), firstImage.getHeight(), firstImage.getConfig());

Canvas canvas = new Canvas(result);

canvas.drawBitmap(firstImage, 0f, 0f, null);

canvas.drawBitmap(secondImage, 10, 10, null);

return result;

}

}

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools" android:layout\_width="match\_parent"

android:layout\_height="match\_parent" android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

android:paddingBottom="@dimen/activity\_vertical\_margin" tools:context=".MainActivity"

android:background="#000000">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="ANIMATE"

android:id="@+id/textView"

android:textSize="35dp"

android:layout\_alignParentTop="true"

android:layout\_centerHorizontal="true"

android:textColor="#fefafa"

android:layout\_marginBottom="60dp"

/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="zoom"

android:id="@+id/button"

android:onClick="clockwise"

android:layout\_alignTop="@+id/imageView1"

android:layout\_alignStart="@+id/button5" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="clockwise"

android:id="@+id/button2"

android:onClick="zoom"

android:layout\_alignTop="@+id/imageView1"

android:layout\_alignParentStart="true" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="fade"

android:id="@+id/button3"

android:onClick="fade"

android:layout\_alignBottom="@+id/button2"

android:layout\_alignStart="@+id/button6" />

<ImageView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/imageView"

android:src="@drawable/girl"

android:layout\_toStartOf="@+id/button5" />

<ImageView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/imageView1"

android:src="@drawable/girly"

android:layout\_alignEnd="@+id/button3"

android:layout\_toEndOf="@+id/button"

android:layout\_alignBottom="@+id/imageView" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="blink"

android:onClick="blink"

android:id="@+id/button4"

android:layout\_below="@+id/imageView1"

android:layout\_alignParentStart="true" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="move"

android:onClick="move"

android:id="@+id/button5"

android:layout\_alignBaseline="@+id/button6"

android:layout\_alignBottom="@+id/button6"

android:layout\_centerHorizontal="true" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="slide"

android:onClick="slide"

android:id="@+id/button6"

android:layout\_below="@+id/imageView1"

android:layout\_toEndOf="@+id/textView" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Merge"

android:id="@+id/combineimage"

android:onClick="merge"

android:layout\_alignTop="@+id/animation"

android:layout\_alignParentStart="true" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Animate"

android:id="@+id/animation"

android:layout\_alignParentBottom="true"

android:layout\_toStartOf="@+id/imageView1"

android:onClick="animate"

android:layout\_alignEnd="@+id/button6" />

</RelativeLayout>

**main.xml**

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools" android:layout\_width="match\_parent"

android:layout\_height="match\_parent" android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

android:paddingBottom="@dimen/activity\_vertical\_margin" tools:context=".MergeActivity">

<ImageView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/imageView"

android:layout\_marginLeft="2dp"

android:background="@drawable/girly"

android:layout\_alignParentTop="true"

android:layout\_alignEnd="@+id/imageView3" />

<ImageView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/imageView2"

android:layout\_marginRight="2dp"

android:background="@drawable/girl1"

android:layout\_alignParentTop="true"

android:layout\_alignStart="@+id/imageView3" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="merge"

android:id="@+id/combineimage"

android:layout\_alignTop="@+id/imageView"

android:layout\_alignStart="@+id/imageView" />

<ImageView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/imageView3"

android:layout\_below="@+id/combineimage"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="34dp" />

</RelativeLayout>

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.hp\_pc.animation">

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

<activity

android:name=".MergeActivity"

android:label="Merge"

/>

<activity

android:name=".AnimateActivity"

android:label="Animate"

/>

</application>

</manifest>

**ANDROID PROGRAM SHOWING USE OF SQLITE DATABASE**

package com.example.hp\_pc.sqlite;

import android.app.Activity;

import android.content.Context;

import android.content.Intent;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.text.TextUtils;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends Activity {

EditText GetName,GetPhoneNumber,GetSubject ;

Button Submit, EditData, DisplayData;

SQLiteDatabase SQLITEDATABASE;

String Name, PhoneNumber, Subject ;

Boolean CheckEditTextEmpty ;

String SQLiteQuery ;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

GetName = (EditText)findViewById(R.id.editText1);

GetPhoneNumber = (EditText)findViewById(R.id.editText2);

GetSubject = (EditText)findViewById(R.id.editText3);

Submit = (Button)findViewById(R.id.button1);

EditData = (Button)findViewById(R.id.button2);

DisplayData = (Button)findViewById(R.id.button3);

Submit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

DBCreate();

SubmitData2SQLiteDB();

}

});

EditData.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

Intent intent = new Intent(MainActivity.this, EditDataActivity.class);

startActivity(intent);

}

});

DisplayData.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

Intent intent = new Intent(MainActivity.this, ListViewActivity.class);

startActivity(intent);

}

});

}

public void DBCreate(){

SQLITEDATABASE = openOrCreateDatabase("DemoDataBase", Context.MODE\_PRIVATE, null);

SQLITEDATABASE.execSQL("CREATE TABLE IF NOT EXISTS demoTable(id INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL, name VARCHAR, phone\_number VARCHAR, subject VARCHAR);");

}

public void SubmitData2SQLiteDB(){

Name = GetName.getText().toString();

PhoneNumber = GetPhoneNumber.getText().toString();

Subject = GetSubject.getText().toString();

CheckEditTextIsEmptyOrNot( Name,PhoneNumber, Subject);

if(CheckEditTextEmpty == true)

{

SQLiteQuery = "INSERT INTO demoTable (name,phone\_number,subject) VALUES('"+Name+"', '"+PhoneNumber+"', '"+Subject+"');";

SQLITEDATABASE.execSQL(SQLiteQuery);

Toast.makeText(MainActivity.this,"Data Submit Successfully", Toast.LENGTH\_LONG).show();

ClearEditTextAfterDoneTask();

}

else {

Toast.makeText(MainActivity.this,"Please Fill All the Fields", Toast.LENGTH\_LONG).show();

}

}

public void CheckEditTextIsEmptyOrNot(String Name,String PhoneNumber, String subject ){

if(TextUtils.isEmpty(Name) || TextUtils.isEmpty(PhoneNumber) || TextUtils.isEmpty(Subject)){

CheckEditTextEmpty = false ;

}

else {

CheckEditTextEmpty = true ;

}

}

public void ClearEditTextAfterDoneTask(){

GetName.getText().clear();

GetPhoneNumber.getText().clear();

GetSubject.getText().clear();

}

}

**EditDataActivity.java**

package com.example.hp\_pc.sqlite;

import android.app.Activity;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.text.TextUtils;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class EditDataActivity extends Activity {

Button nextbutton, previousbutton, updatebutton, deletebutton;

EditText name, phoneNumber, SubJect;

SQLiteDatabase SQLITEDATABASE, SQLITEDATABASE2 ;

String GetSQliteQuery, UpdateRecordQuery, DeleteQuery ;

Cursor cursor, cursorCheckDataIsEmptyOrNot ;

TextView idtextview;

Boolean CheckEditTextEmpty;

String GetName,GetPhoneNumber,GetSubject ;

int UserID ;

String ConvertUserID ;

SQLiteHelper SQLITEHELPER;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_edit\_data);

nextbutton = (Button)findViewById(R.id.button1);

previousbutton = (Button)findViewById(R.id.button2);

updatebutton = (Button)findViewById(R.id.button3);

deletebutton = (Button)findViewById(R.id.button4);

name = (EditText)findViewById(R.id.editText1);

phoneNumber = (EditText)findViewById(R.id.editText2);

SubJect = (EditText)findViewById(R.id.editText3);

idtextview = (TextView)findViewById(R.id.textview1);

GetSQliteQuery = "SELECT \* FROM demoTable" ;

SQLITEDATABASE = openOrCreateDatabase("DemoDataBase", Context.MODE\_PRIVATE, null);

cursor = SQLITEDATABASE.rawQuery(GetSQliteQuery, null);

cursor.moveToFirst();

GetSQLiteDatabaseRecords();

nextbutton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

if (!cursor.isLast()){

cursor.moveToNext();

}

GetSQLiteDatabaseRecords();

}

});

previousbutton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

if (!cursor.isFirst()){

cursor.moveToPrevious();

}

GetSQLiteDatabaseRecords();

}

});

updatebutton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

GetName = name.getText().toString();

GetPhoneNumber = phoneNumber.getText().toString();

GetSubject = SubJect.getText().toString();

ConvertUserID = idtextview.getText().toString();

UserID = Integer.parseInt(ConvertUserID);

UpdateRecordQuery = "UPDATE demoTable SET name='" + GetName + "', phone\_number='" + GetPhoneNumber + "', subject='" + GetSubject + "' WHERE id=" + UserID + ";";

CheckEditTextIsEmptyOrNot( GetName,GetPhoneNumber, GetSubject);

if (CheckEditTextEmpty == false) {

SQLITEDATABASE.execSQL(UpdateRecordQuery);

cursor = SQLITEDATABASE.rawQuery(GetSQliteQuery, null);

cursor.moveToPosition(UserID);

Toast.makeText(EditDataActivity.this,"Data Updated Successfully", Toast.LENGTH\_LONG).show();

}else {

Toast.makeText(EditDataActivity.this,"Please Fill All the Fields", Toast.LENGTH\_LONG).show();

}

}

});

deletebutton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

ConvertUserID = idtextview.getText().toString();

UserID = Integer.parseInt(ConvertUserID);

DeleteQuery = "DELETE FROM demoTable WHERE id=" + UserID + ";";

SQLITEDATABASE.execSQL(DeleteQuery);

Toast.makeText(EditDataActivity.this, "Record Deleted Successfully", Toast.LENGTH\_LONG).show();

cursor = SQLITEDATABASE.rawQuery(GetSQliteQuery, null);

}

});

}

public void GetSQLiteDatabaseRecords(){

idtextview.setText(cursor.getString(0));

name.setText(cursor.getString(1).toString());

phoneNumber.setText(cursor.getString(2).toString());

SubJect.setText(cursor.getString(3).toString());

}

public void CheckEditTextIsEmptyOrNot(String Name,String PhoneNumber, String subject ){

if(TextUtils.isEmpty(Name) || TextUtils.isEmpty(PhoneNumber) || TextUtils.isEmpty(subject)){

CheckEditTextEmpty = true ;

}

else {

CheckEditTextEmpty = false ;

}

}

}

**ListViewActivity.java**

package com.example.hp\_pc.sqlite;

/\*\*

\* Created by hp-pc on 07-10-2016.

\*/

import java.util.ArrayList;

import android.app.Activity;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.widget.ListView;

public class ListViewActivity extends Activity {

SQLiteHelper SQLITEHELPER;

SQLiteDatabase SQLITEDATABASE;

Cursor cursor;

SQLiteListAdapter ListAdapter ;

ArrayList<String> ID\_ArrayList = new ArrayList<String>();

ArrayList<String> NAME\_ArrayList = new ArrayList<String>();

ArrayList<String> PHONE\_NUMBER\_ArrayList = new ArrayList<String>();

ArrayList<String> SUBJECT\_ArrayList = new ArrayList<String>();

ListView LISTVIEW;

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_list\_view);

LISTVIEW = (ListView) findViewById(R.id.listView1);

SQLITEHELPER = new SQLiteHelper(this);

}

@Override

protected void onResume() {

ShowSQLiteDBdata() ;

super.onResume();

}

private void ShowSQLiteDBdata() {

SQLITEDATABASE = SQLITEHELPER.getWritableDatabase();

cursor = SQLITEDATABASE.rawQuery("SELECT \* FROM demoTable", null);

ID\_ArrayList.clear();

NAME\_ArrayList.clear();

PHONE\_NUMBER\_ArrayList.clear();

SUBJECT\_ArrayList.clear();

if (cursor.moveToFirst()) {

do {

ID\_ArrayList.add(cursor.getString(cursor.getColumnIndex(SQLiteHelper.KEY\_ID)));

NAME\_ArrayList.add(cursor.getString(cursor.getColumnIndex(SQLiteHelper.KEY\_Name)));

PHONE\_NUMBER\_ArrayList.add(cursor.getString(cursor.getColumnIndex(SQLiteHelper.KEY\_PhoneNumber)));

SUBJECT\_ArrayList.add(cursor.getString(cursor.getColumnIndex(SQLiteHelper.KEY\_Subject)));

} while (cursor.moveToNext());

}

ListAdapter = new SQLiteListAdapter(ListViewActivity.this,

ID\_ArrayList,

NAME\_ArrayList,

PHONE\_NUMBER\_ArrayList,

SUBJECT\_ArrayList

);

LISTVIEW.setAdapter(ListAdapter);

cursor.close();

}

}

**SQLiteHelper.java**

package com.example.hp\_pc.sqlite;

/\*\*

\* Created by hp-pc on 07-10-2016.

\*/

import android.content.Context;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

public class SQLiteHelper extends SQLiteOpenHelper {

static String DATABASE\_NAME="DemoDataBase";

public static final String KEY\_ID="id";

public static final String TABLE\_NAME="demoTable";

public static final String KEY\_Name="name";

public static final String KEY\_PhoneNumber="phone\_number";

public static final String KEY\_Subject="subject";

public SQLiteHelper(Context context) {

super(context, DATABASE\_NAME, null, 1);

}

@Override

public void onCreate(SQLiteDatabase database) {

String CREATE\_TABLE="CREATE TABLE IF NOT EXISTS "+TABLE\_NAME+" ("+KEY\_ID+" INTEGER PRIMARY KEY, "+KEY\_Name+" VARCHAR, "+KEY\_PhoneNumber+" VARCHAR, "+KEY\_Subject+" VARCHAR)";

database.execSQL(CREATE\_TABLE);

}

@Override

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {

db.execSQL("DROP TABLE IF EXISTS "+TABLE\_NAME);

onCreate(db);

}

}

**SQLiteListAdapter.java**

package com.example.hp\_pc.sqlite;

/\*\*

\* Created by hp-pc on 07-10-2016.

\*/

import java.util.ArrayList;

import android.content.Context;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.BaseAdapter;

import android.widget.TextView;

public class SQLiteListAdapter extends BaseAdapter {

Context context;

ArrayList<String> userID;

ArrayList<String> UserName;

ArrayList<String> User\_PhoneNumber;

ArrayList<String> UserSubject ;

public SQLiteListAdapter(

Context context2,

ArrayList<String> id,

ArrayList<String> name,

ArrayList<String> phone,

ArrayList<String> subject

)

{

this.context = context2;

this.userID = id;

this.UserName = name;

this.User\_PhoneNumber = phone;

this.UserSubject = subject ;

}

public int getCount() {

// TODO Auto-generated method stub

return userID.size();

}

public Object getItem(int position) {

// TODO Auto-generated method stub

return null;

}

public long getItemId(int position) {

// TODO Auto-generated method stub

return 0;

}

public View getView(int position, View child, ViewGroup parent) {

Holder holder;

LayoutInflater layoutInflater;

if (child == null) {

layoutInflater = (LayoutInflater) context.getSystemService(Context.LAYOUT\_INFLATER\_SERVICE);

child = layoutInflater.inflate(R.layout.listviewdatalayout, null);

holder = new Holder();

holder.textviewid = (TextView) child.findViewById(R.id.textViewID);

holder.textviewname = (TextView) child.findViewById(R.id.textViewNAME);

holder.textviewphone\_number = (TextView) child.findViewById(R.id.textViewPHONE\_NUMBER);

holder.textviewsubject = (TextView) child.findViewById(R.id.textViewSUBJECT);

child.setTag(holder);

} else {

holder = (Holder) child.getTag();

}

holder.textviewid.setText(userID.get(position));

holder.textviewname.setText(UserName.get(position));

holder.textviewphone\_number.setText(User\_PhoneNumber.get(position));

holder.textviewsubject.setText(UserSubject.get(position));

return child;

}

public class Holder {

TextView textviewid;

TextView textviewname;

TextView textviewphone\_number;

TextView textviewsubject;

}

}

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingBottom="@dimen/activity\_vertical\_margin"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context="com.example.hp\_pc.sqlite.MainActivity" >

<EditText

android:id="@+id/editText1"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_alignParentTop="true"

android:layout\_centerHorizontal="true"

android:ems="10"

android:hint="Enter Name Here"

android:gravity="center"

android:background="#f1bebe" />

<EditText

android:id="@+id/editText2"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/editText1"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="20dp"

android:ems="10"

android:inputType="phone"

android:hint="Enter Phone Number Here"

android:gravity="center"

android:background="#f3c2c2" />

<EditText

android:id="@+id/editText3"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/editText2"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="20dp"

android:ems="10"

android:hint="Enter Subject Here"

android:gravity="center"

android:backgroundTint="#f9bfbf"

android:background="#f9bcbc" />

<Button

android:id="@+id/button1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerHorizontal="true"

android:layout\_centerVertical="true"

android:text="INSERT" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/button1"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="16dp"

android:text="EDIT" />

<Button

android:id="@+id/button3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/button2"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="16dp"

android:text="SHOW ALL" />

</RelativeLayout>

**activity\_edit\_data.xml**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingBottom="@dimen/activity\_vertical\_margin"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context="com.example.hp\_pc.sqlite.EditDataActivity" >

<TextView

android:id="@+id/textview1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:gravity="center"

android:layout\_centerHorizontal="true"

android:text="Record Id = "

android:textAppearance="?android:attr/textAppearanceLarge"/>

<EditText

android:id="@+id/editText1"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/textview1"

android:layout\_centerHorizontal="true"

android:ems="10"

android:hint="Name Show Here"

android:gravity="center"

android:layout\_marginTop="20dp"

android:background="#9dbbec" />

<EditText

android:id="@+id/editText2"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/editText1"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="20dp"

android:ems="10"

android:inputType="phone"

android:hint="Phone Number Show Here"

android:gravity="center"

android:background="#a6cee4" />

<EditText

android:id="@+id/editText3"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/editText2"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="20dp"

android:ems="10"

android:hint="Subject Show Here"

android:gravity="center"

android:background="#9fbbf0" />

<Button

android:id="@+id/button1"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_centerHorizontal="true"

android:layout\_centerVertical="true"

android:text="Show Next Record" />

<Button

android:id="@+id/button2"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/button1"

android:layout\_centerHorizontal="true"

android:text="Show Previous Record" />

<Button

android:id="@+id/button3"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/button2"

android:layout\_centerHorizontal="true"

android:text="Update Existing Record" />

<Button

android:id="@+id/button4"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/button3"

android:layout\_centerHorizontal="true"

android:text="Delete Existing Record" />

</RelativeLayout>

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.hp\_pc.sqlite">

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

<activity

android:name=".EditDataActivity"

android:label="Edit Data"

/>

<activity

android:name=".ListViewActivity"

android:label="View the list"

/>

</application>

</manifest>

**ANDROID PROGRAM THAT READS AND WRITE TO A FILE**

**main\_activity.java**

package com.example.hp\_pc.myapplication;

import android.app.Activity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileOutputStream;

import java.io.InputStreamReader;

import java.io.OutputStreamWriter;

import java.io.\*;

import android.app.Activity;

import android.os.Bundle;

import android.view.\*;

import android.view.View.OnClickListener;

import android.widget.\*;

public class main\_activity extends Activity {

// GUI controls

EditText txtData;

Button btnWriteSDFile;

Button btnReadSDFile;

Button btnClearScreen;

Button btnClose;

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

// bind GUI elements with local controls

txtData = (EditText) findViewById(R.id.txtData);

txtData.setHint("Enter some lines of data here...");

btnWriteSDFile = (Button) findViewById(R.id.btnWriteSDFile);

btnWriteSDFile.setOnClickListener(new View.OnClickListener() {

public void onClick(View v) {

// write on SD card file data in the text box

try {

File myFile = new File("/sdcard/mysdfile.txt");

myFile.createNewFile();

FileOutputStream fOut = new FileOutputStream(myFile);

OutputStreamWriter myOutWriter =

new OutputStreamWriter(fOut);

myOutWriter.append(txtData.getText());

myOutWriter.close();

fOut.close();

Toast.makeText(getBaseContext(),

"Done writing SD 'mysdfile.txt'",

Toast.LENGTH\_SHORT).show();

} catch (Exception e) {

Toast.makeText(getBaseContext(), e.getMessage(),

Toast.LENGTH\_SHORT).show();

}

}// onClick

}); // btnWriteSDFile

btnReadSDFile = (Button) findViewById(R.id.btnReadSDFile);

btnReadSDFile.setOnClickListener(new View.OnClickListener() {

public void onClick(View v) {

// write on SD card file data in the text box

try {

File myFile = new File("/sdcard/mysdfile.txt");

FileInputStream fIn = new FileInputStream(myFile);

BufferedReader myReader = new BufferedReader(

new InputStreamReader(fIn));

String aDataRow = "";

String aBuffer = "";

while ((aDataRow = myReader.readLine()) != null) {

aBuffer += aDataRow + "\n";

}

txtData.setText(aBuffer);

myReader.close();

Toast.makeText(getBaseContext(),

"Done reading SD 'mysdfile.txt'",

Toast.LENGTH\_SHORT).show();

} catch (Exception e) {

Toast.makeText(getBaseContext(), e.getMessage(),

Toast.LENGTH\_SHORT).show();

}

}// onClick

}); // btnReadSDFile

btnClearScreen = (Button) findViewById(R.id.btnClearScreen);

btnClearScreen.setOnClickListener(new View.OnClickListener() {

public void onClick(View v) {

// clear text box

txtData.setText("");

}

}); // btnClearScreen

btnClose = (Button) findViewById(R.id.btnClose);

btnClose.setOnClickListener(new View.OnClickListener() {

public void onClick(View v) {

// clear text box

finish();

}

}); // btnClose

}// onCreate

}// AndSDcard

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout

android:id="@+id/widget28"

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:background="#d5d5f5"

android:orientation="vertical"

xmlns:android="http://schemas.android.com/apk/res/android"

android:weightSum="1">

<EditText

android:id="@+id/txtData"

android:layout\_width="fill\_parent"

android:layout\_height="180px"

android:textSize="18sp"

android:background="#f6bbbb"

/>

<Button

android:id="@+id/btnWriteSDFile"

android:layout\_width="165dp"

android:layout\_height="44px"

android:text="1. Write SD File"

android:layout\_weight="0.12"

android:layout\_marginBottom="30dp"/>

<Button

android:id="@+id/btnClearScreen"

android:layout\_width="162dp"

android:layout\_height="44px"

android:text="2. Clear Screen"

android:layout\_weight="0.12"

android:layout\_marginBottom="30dp"/>

<Button

android:id="@+id/btnReadSDFile"

android:layout\_width="162dp"

android:layout\_height="44dp"

android:text="3. Read SD File"

android:layout\_weight="0.12"

android:layout\_marginBottom="30dp"

/>s

<Button

android:id="@+id/btnClose"

android:layout\_width="167dp"

android:layout\_height="44px"

android:text="4. Close"

android:layout\_weight="0.12"

android:layout\_marginBottom="30dp"/>

</LinearLayout>

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.hp\_pc.myapplication">

<uses-permission android:name="android.permission.WRITE\_EXTERNAL\_STORAGE"/>

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".main\_activity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>