## 1. DataBase Connectivity

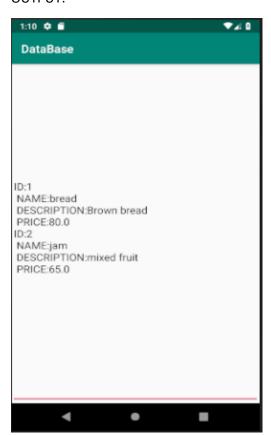
#### Activity\_main.xml

#### MainActivity.java

```
package com.example.database;
import ...
public class MainActivity extends AppCompatActivity {
EditText text;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
         super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        DemoDatabase db=new DemoDatabase( d: this);
        SQLiteDatabase sqldb=db.getReadableDatabase();
        ContentValues values=new ContentValues();
        values.put("price", 80);
        sqldb.update( table: "products", values, whereClause: "id=?", new String[] {"1"});
        Cursor c=sqldb.rawQuery( sql: "select * from products", new String[]{});
        if (c!=null) {
             c.moveToFirst();
        StringBuilder builder=new StringBuilder();
            int id=c.getInt( columnIndex: 0);
            String name=c.getString( columnIndex: 1);
            String desc=c.getString( columnIndex: 2);
            Double price=c.getDouble(columnIndex: 3);
            builder.append("ID:"+id+"\n NAME:"+name+"\n DESCRIPTION:"+desc+"\n PRICE:"+price+"\n");
         }while (c.moveToNext());
         text=findViewById(R.id.e);
        text.setText(builder.toString());
```

#### DemoJob.java

```
package com.example.database;
import ...
public class DemoDatabase extends SQLiteOpenHelper {
static String dbname="mydb";
static int version=1;
public DemoDatabase(Context ct) { super(ct,dbname, factory: null,version); }
    @Override
    public void onCreate(SQLiteDatabase db) {
String sql="Create table products(id integer Primary key autoincrement, name text, description text, price real)";
        db.execSQL(sql);
        insertData ( name: "bread", description: "Brown bread", price: 40.0,db);
        insertData( name: "jam", description: "mixed fruit", price: 65.0,db);
     public void insertData(String name, String description, double price, SQLiteDatabase db) {
         ContentValues values=new ContentValues();
         values.put("name", name);
         values.put("description", description);
         values.put("price",price);
         db.insert( table: "products", nullColumnHack: null, values);
     @Override
     public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
     }
}
```



# 2. Animation

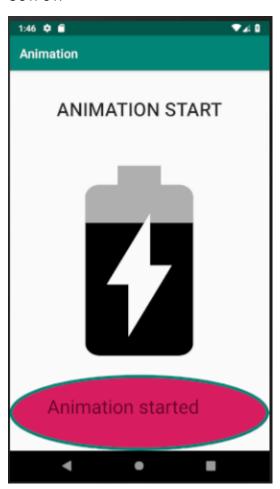
#### Main\_activity.xml

```
<?xml version="1.0" encoding="utf-8"?>
<@nearLayout android:orientation="vertical" xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout width="match parent"
   android:layout height="match parent"
   tools:context=".MainActivity">
<Button android:onClick="show"
   android:layout width="match_parent"
   android:layout height="0dp"
   android:layout weight="1"
   android:text="Animation Start"
    android:textSize="30dp"
   android:background="@drawable/button"/>
    <ImageView android:id="@+id/i1"</pre>
         android:layout width="match parent"
         android:layout height="0dp"
         android:layout weight="3"
    <TextView android:id="@+id/t1"
         android:layout width="match parent"
         android:layout_height="0dp"
         android:layout weight="1"
         android:textSize="30dp"
         android:background="@drawable/shapetext"/>
</LinearLayout>
Mainactivity.java
public class MainActivity extends AppCompatActivity {
ImageView i;
TextView t;
AnimationDrawable draw;
     @Override
     protected void onCreate(Bundle savedInstanceState) {
         super.onCreate(savedInstanceState);
         setContentView(R.layout.activity main);
         i=findViewById(R.id.i1);
         t=findViewById(R.id.t1);
         i.setBackgroundResource(R.drawable.animator);
         draw=(AnimationDrawable)i.getBackground();
    public void show(View v) {
         draw.start();
         t.setText("Animation started");
```

#### Animator.xml

```
<?xml version="1.0" encoding="utf-8"?>
<animation-list xmlns:android="http://schemas.android.com/apk/res/android">
    android:drawable="@drawable/ic battery 20 black 24dp"
    android:duration="400"/>
    <item
        android:drawable="@drawable/ic battery charging 30 black 24dp"
        android:duration="400"/>
    <item
        android:drawable="@drawable/ic battery charging 50 black 24dp"
        android:duration="400"/>
        android:drawable="@drawable/ic battery charging 60 black 24dp"
        android:duration="400"/>
    <item
        android:drawable="@drawable/ic battery charging 80 black 24dp"
        android:duration="400"/>
    <item
        android:drawable="@drawable/ic battery charging 90 black 24dp"
        android:duration="400"/>
    <item
        android:drawable="@drawable/ic battery charging full black 24dp"
        android:duration="400"/>
</animation-list>
Button.xml
<?xml version="1.0" encoding="utf-8"?>
<&lector xmlns:android="http://schemas.android.com/apk/res/android">
<item android:state focused="true"</pre>
    android:state enabled="true"
    android:drawable="@drawable/shape"/>
    <item
        android:state enabled="true"
        android:state pressed="true"
        android:drawable="@color/colorPrimary"/>
</selector>
Shape.xml
<?xml version="1.0" encoding="utf-8"?>
<saape xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   android:shape="rectangle">
   <corners android:radius="4dp"/>
   <stroke android:width="4dp"
       android:color="#C1E1A6"/>
   <padding android:left="20dp"</pre>
       android:right="20dp"
       android:bottom="20dp"
       android:top="20dp"/>
```

#### shapeText.xml



# 3. RecylclerView

#### Activity\_Main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    tools:context=".MainActivity">
    <android.support.v7.widget.RecyclerView
        android:layout_width="match_parent"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:scrollbars="vertical">
        </android.support.v7.widget.RecyclerView></android.support.v7.widget.RecyclerView>
```

# ⟨/LinearLayout⟩

#### MainActivity.java

```
package com.example.recyclerview;

import ...

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        RecyclerView rv=findViewById(R.id.r);
        rv.setLayoutManager(new LinearLayoutManager(context this));
        int[]img={R.drawable.batman,R.drawable.ironman,R.drawable.hulk,R.drawable.spiderman,R.drawable.thor};
        String t[]={"Hi i am Batman","Hi i am Ironman","Hi i am Hulk","Hi i am Spiderman","Hi i am Thor"};
        rv.setAdapter(new cardadapter(t,img, context this));
}
```

#### Cardadapter.java

```
import com.example.recyclerview.R;
public class cardadapter extends RecyclerView.Adapter<cardadapter.cardholder> {
  String[]text;
    int[]imgid;
    Context context;
    public cardadapter(String[]text,int[]imgid,Context context){
        this.text=text;
        this.imgid=imgid;
    public class cardholder extends RecyclerView.ViewHolder{
        ImageView img;
        TextView t;
        CardView cv;
         public cardholder(View v) {
             super(v);
             img=v.findViewById(R.id.img1);
            t=v.findViewById(R.id.t1);
             cv=v.findViewById(R.id.card1);
         }
    @Override
    public cardholder onCreateViewHolder(@NonNull ViewGroup viewGroup, int i) {
       View v= LayoutInflater.from(viewGroup.getContext()).inflate(R.layout.cardview,viewGroup, attachToRoot: false);
       cardholder c=new cardholder(v);
       context=viewGroup.getContext();
       return (cardholder)c;
    @Override
    public void onBindViewHolder(@NonNull final cardholder cardholder, int i) {
        cardholder.t.setText(text[i]);
        cardholder.img.setImageResource(imgid[i]);
        cardholder.t.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View v) {
             Toast.makeText(context, cardholder.t.getText(), Toast.LENGTH LONG).show();
           1
        });
    @Override
    public int getItemCount() { return text.length; }
}
```

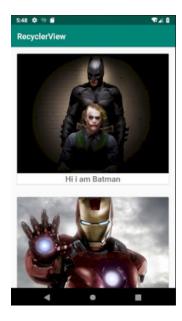
#### Cardview.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout</pre>
    xmlns:android="http://schemas.android.com/apk/res/android" android:layout_width="match_parent"
android:layout height="wrap content"
    <android.support.v7.widget.CardView</pre>
        android:layout width="match parent"
        android:layout height="wrap content"
        android:layout margin="16dp"
        android:id="@+id/card1">
        <LinearLayout
            android:orientation="vertical"
            android:layout width="match parent"
            android:layout height="wrap content">
            <ImageView
                android:layout width="match parent"
                android:layout height="300dp"
                android:scaleType="centerCrop"
                android:id="@+id/img1"/>
            <TextView android:id="@+id/t1"
                android:layout_width="match_parent"
                android:layout height="wrap content"
                android:textSize="20dp"
                android:textAlignment="center"
                android:textStyle="bold"/>
        </LinearLayout>
    </android.support.v7.widget.CardView>
```

#### </RelativeLayout>

## Changes in Gradel file

```
implementation 'com.android.support:recyclerview-v7:28.0.0'
implementation 'com.android.support:cardview-v7:28.0.0'
```





# 4. Example of Implicit Intent

#### Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout android:orientation="vertical" xmlns:android="http://schemas.android.com/apk/res/android"</p>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout width="match parent"
   android:layout height="match parent"
   tools:context=".MainActivity">
   <LinearLayout android:background="@drawable/shapeforlayout"</pre>
       android:layout_width="match_parent"
       android:layout height="0dp"
       android:layout weight="1"
       android:orientation="vertical">
<EditText
   android:layout width="match parent"
   android:layout height="0dp"
   android:layout weight="1"
   android:hint="Enter a website url"
   android:id="@+id/t1"/>
    <Button
         android:layout width="match parent"
         android:layout height="0dp"
         android:layout weight="1"
         android:text="Search"
         android:textSize="20dp"
         android:onClick="clickforwebsite"/>
    </LinearLayout>
    <LinearLayout android:background="@drawable/shapeforlayout"</pre>
         android:layout width="match parent"
         android:layout height="0dp"
         android:layout weight="1"
        android:orientation="vertical">
<Button
    android:layout width="match parent"
    android:layout height="0dp"
    android:layout weight="1"
    android:onClick="click"
    android:text="Click To View Contacts"
```

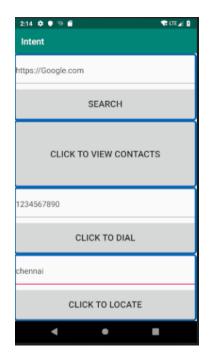
```
android:textAlignment="center"
    android:textSize="20dp"/>
    </LinearLayout>
    <LinearLayout android:background="@drawable/shapeforlayout"</p>
        android:layout width="match parent"
        android:layout height="0dp"
        android:layout weight="1"
        android:orientation="vertical">
    <EditText
        android:layout width="match parent"
        android:layout height="0dp"
        android:layout_weight="1"
        android:hint="Enter phone no"
        android:id="@+id/e2"/>
    <Button
        android:layout width="match parent"
        android:layout height="0dp"
        android:layout weight="1"
        android:text="Click To Dial"
         android:onClick="clickfordial"
         android:textSize="20dp"/>
     </LinearLayout>
     <LinearLayout android:background="@drawable/shapeforlayout"</pre>
         android:layout width="match parent"
         android:layout height="0dp"
         android:layout weight="1"
         android:orientation="vertical">
     <EditText
         android:layout width="match parent"
         android:layout height="0dp"
         android:layout_weight="1"
         android:hint="Enter location"
         android:id="@+id/e3"/>
     <Button
         android:layout width="match parent"
         android:layout height="0dp"
         android:layout weight="1"
         android:text="Click To Locate"
         android:onClick="clickforlocate"
         android:textSize="20dp"/>
    </LinearLayout>
</LinearLayout>
```

#### MainActivity.java

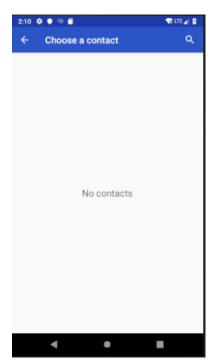
```
package com.example.intent;
import ...
public class MainActivity extends AppCompatActivity {
EditText e1;
EditText e2;
    EditText e3;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        e1=findViewById(R.id.t1);
        e2=findViewById(R.id.e2);
        e3=findViewById(R.id.e3);
    public void clickforwebsite (View v) {
        String s=e1.getText().toString();
        Intent i=new Intent(Intent.ACTION VIEW, Uri.parse(s));
        startActivity(i);
    }
   public void click(View v) {
        Intent i=new Intent(Intent.ACTION_PICK, ContactsContract.Contacts.CONTENT URI);
       startActivity(i);
   public void clickfordial (View v) {
        String sl=e2.getText().toString();
        Intent i=new Intent(Intent.ACTION DIAL,Uri.parse("tel:"+sl));
        startActivity(i);
   public void clickforlocate(View v) {
       String s2=e3.getText().toString();
       Intent i=new Intent(Intent.ACTION_VIEW,Uri.parse("geo:0,0?q=("+s2+")"));
     startActivity(i);
```

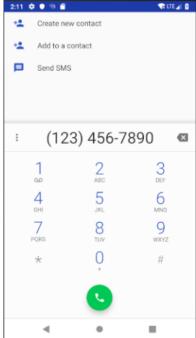
## Androidmanifest.xml

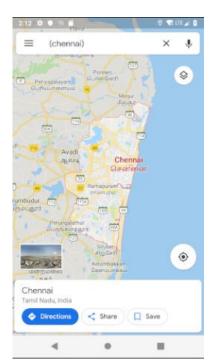
<uses-permission android:name="android.permission.INTERNET"/>











## 5. 2-Way Intent

## Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout android:orientation="vertical" xmlns:android="http://schemas.android.com/apk/res/android"</p>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity">
    <TextView
       android:id="@+id/t1"
       android:layout width="match parent"
       android:layout height="0dp"
        android:layout weight="7"
        android:text="messsage display here"
       android:textSize="24sp" />
    <EditText
       android:id="@+id/editText"
       android:layout width="match parent"
       android:layout height="0dp"
       android:layout weight="1"
        android:hint="type text here"
       android:inputType="textPersonName" />
    <LinearLayout
       android:orientation="horizontal"
       android:layout width="match parent"
       android:layout_height="0dp"
        android:layout weight="1">
         <Button
             android:id="@+id/button"
             android:layout width="0dp"
             android:layout height="wrap content"
             android:onClick="forStartConversion"
             android:layout weight="1"
             android:text="Start (One Way)" />
         <Button
             android:id="@+id/button3"
             android:layout width="0dp"
             android:layout height="wrap content"
             android:layout weight="1"
             android:onClick="forreply"
             android:text="Start (Two Way)"/>
     </LinearLayout>
```

MainActivity.java

</LinearLayout>

```
package com.example.mgm.myapplication05;
import ...
public class MainActivity extends AppCompatActivity {
    EditText e;
    TextView t;
    public static String message ="";
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        e = findViewById(R.id.editText);
        t = findViewById(R.id.t1);
    public void forStartConversion(View v) {
        Intent i = new Intent( packageContext: this, Activity2.class);
        i.putExtra(message, e.getText().toString());
        startActivity(i);
    public void forreply(View v) {
        Intent i = new Intent( packageContext: this, Activity2.class);
        i.putExtra(message, e.getText().toString());
        startActivityForResult(i, requestCode: 1);
        public void onActivityResult ( int requestCode, int responseCode, Intent data) {
            super.onActivityResult(requestCode, responseCode, data);
            Intent i2=getIntent();
            if (requestCode == 1) {
                if (responseCode == RESULT OK) {
                    String reply = data.getStringExtra(Activity2.Reply);
                    t.setVisibility(View.VISIBLE);
                    t.setText(reply);
```

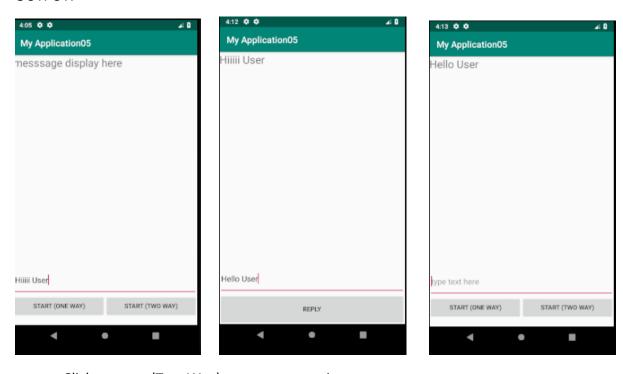
## Activity\_2.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 wmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".Activity2"
    android:orientation="vertical">
<TextView
    android:layout width="match parent"
    android:layout height="0dp"
    android:layout weight="7"
    android:textSize="24dp"
    android:text="Message Displays here"
    android:id="@+id/t2"/>
    <EditText
       android:layout width="match parent"
       android:layout height="0dp"
       android:layout weight="1"
       android:inputType="textPersonName"
       android:hint="type to reply"
       android:id="@+id/editText"/>
       android:layout width="match parent"
       android:layout height="0dp"
        android:layout weight="1"
       android:onClick="forreply"
       android:text="Reply"
       android:id="@+id/button"/>
</LinearLayout>
```

## Activity2.java

```
package com.example.mgm.myapplication05;
import ...
public class Activity2 extends AppCompatActivity {
EditText e;
TextView tt;
public static String Reply="reply";
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity 2);
        e=findViewById(R.id.editText);
        tt=findViewById(R.id.t2);
        Intent irr=getIntent();
        String message= irr.getStringExtra(MainActivity.message);
        tt.setText(message);
    public void forreply(View v) {
        Intent i=new Intent( packageContext: this, MainActivity.class);
        String r=e.getText().toString();
        i.putExtra(Reply,r);
      setResult(RESULT OK, i);
       finish();
}
```

#### **OUTPUT:-**



Click on start (Two Way) to start conversion

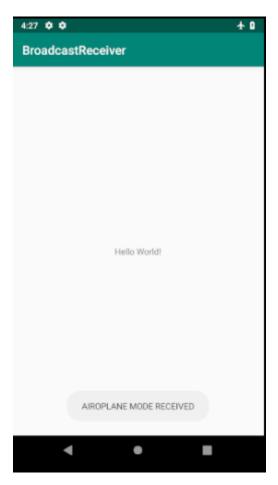
## 6. Broadcast Receiver

## Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity">
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Hello World!"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintLeft toLeftOf="parent"
        app:layout constraintRight toRightOf="parent"
        app:layout constraintTop toTopOf="parent" />
</android.support.constraint.ConstraintLayout>
MainActivity.java
package com.example.mgm.broadcastreceiver;
import ...
public class MainActivity extends AppCompatActivity {
    demoBroadcst d;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
    @Override
    protected void onStart() {
        IntentFilter intentFilter=new IntentFilter(Intent.ACTION AIRPLANE MODE CHANGED);
        d=new demoBroadcst();
        super.onStart();
        registerReceiver(d,intentFilter);
     @Override
     protected void onStop() {
         super.onStop();
         unregisterReceiver(d);
```

#### AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    package="com.example.mgm.broadcastreceiver">
     <application</a>
         android:allowBackup="true"
         android:icon="@mipmap/ic launcher"
         android:label="BroadcastReceiver"
         android:roundIcon="@mipmap/ic launcher round"
         android:supportsRtl="true"
         android:theme="@style/AppTheme">
         <receiver android:name=".demoBroadcst"></receiver>
         <activity android:name=".MainActivity">
            <intent-filter>
               <action android:name="android.intent.action.AIROPLANE MODE"></action>
               <action android:name="android.intent.action.MAIN" />
               <action android:name="android.intent.action.BOOT COMPLETED" />
               <action android:name="android.net.conn.CONNECTIVITY CHANGE" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
       </activity>
   </application>
<uses-permission android:name="android.permission.RECEIVE BOOT COMPLETED"></uses-permission>
</manifest>
demoBroadcast.java
package com.example.mgm.broadcastreceiver;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.net.ConnectivityManager;
import android.widget.Toast;
public class demoBroadcst extends BroadcastReceiver {
    public void onReceive(Context context, Intent intent) {
        if (Intent.ACTION BOOT COMPLETED.equals(intent.getAction())) {
            Toast.makeText(context, text: "BOOT COMPLETED", Toast.LENGTH SHORT).show();
        if (ConnectivityManager. CONNECTIVITY ACTION. equals (intent.getAction())) {
            Toast.makeText(context, text: " BOOT CONNETED", Toast.LENGTH SHORT).show();
        if (Intent.ACTION AIRPLANE MODE CHANGED.equals(intent.getAction())) {
            Toast.makeText(context, text: "AIROPLANE MODE RECEIVED", Toast.LENGTH SHORT).show();
   }
```



# 7. Snackbar

## MainActivity.java

```
package com.example.usingsnackbar;
import ...
public class MainActivity extends AppCompatActivity {
     @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        Button button = (Button) findViewById(R.id.callbackButton);
        button.setOnClickListener((v) → {
                 // Button was clicked/tapped
                View view = findViewById(R.id.main Layout id);
                 String message = "Snackbar message";
                 int duration = Snackbar.LENGTH SHORT;
                showSnackbar(view, message, duration);
         1);
    public void showSnackbar(View view, String message, int duration)
        // Create snackbar
        final Snackbar snackbar = Snackbar.make(view, message, duration);
        // Set an action on it, and a handler
        snackbar.setAction( text: "DISMISS", (v) → { snackbar.dismiss(); });
        snackbar.show();
```

## Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
|<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
  💡 android:id="@+id/main layout id"
android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical"
    tools:context=".MainActivity">
        <TextView
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:layout gravity="center"
            android:gravity="center horizontal"
            android:text="Click button to bring up snackbar!" />
         <Button
             android:id="@+id/callbackButton"
             android:layout width="300dp"
             android:layout height="50dp"
             android:layout gravity="center horizontal"
             android:layout margin="50dp"
             android:backgroundTint="@android:color/holo_blue_light"
             android:text="Click Me!"
             android:textColor="@android:color/white" />
```

```
</LinearLayout>
```



# 8. Tab Layout

Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity">
    <android.support.v7.widget.Toolbar</pre>
         android:layout width="match parent"
         android:layout height="wrap content"
         android:id="@+id/toolbar"
         android:background="?attr/colorAccent"
         android:minHeight="?android:attr/actionBarSize"
         android: theme="@style/Theme.AppCompat.Light.DarkActionBar"
         />
    <android.support.design.widget.TabLayout</pre>
        android:id="@+id/tablay"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:background="?attr/colorAccent"
        android:minHeight="?android:attr/actionBarSize"
        android: theme="@style/Theme.AppCompat.Light.DarkActionBar"
    />
    <android.support.v4.view.ViewPager</pre>
        android:id="@+id/viewPager"
        android:layout width="wrap content"
        android:layout height="fill parent"
        android:layout below="@+id/tablay"></android.support.v4.view.ViewPager>
</RelativeLayout>
```

## Styles.xml

```
<resources>
    <!-- Base application theme. -->
    <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">
        <!-- Customize your theme here. -->
        <item name="colorPrimary">@color/colorPrimary</item>
        <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
        <item name="colorAccent">@color/colorAccent</item>
        <item name="windowActionBar">false</item>
     <item name="windowNoTitle">true</item>
    </style>
</resources>
Fragment java.xml
 <?xml version="1.0" encoding="utf-8"?>
9<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
     xmlns:tools="http://schemas.android.com/tools"
     android:layout width="match parent"
     android:layout height="match parent"
     tools:context=".java1">
     <!-- TODO: Update blank fragment Layout -->
     <TextView
         android:layout width="match parent"
         android:layout height="match parent"
         android:text="Welcome To Java"
         android:textColor="@color/colorPrimaryDark"
         android:textSize="36dp"
         android:gravity="center"
```

</RelativeLayout>

## Fragment\_android.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"
    tools:context=".android">

    <!-- TODO: Update blank fragment layout -->
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="Welcome To Android"
        android:textColor="@color/colorAccent"
        android:textSize="30dp"
        android:gravity="center"/>
```

#### |</RelativeLayout>

## Android.java

# Java1.java

# MainActivity.java

```
package com.example.mgm.tab;
import android.support.design.widget.TabLayout;
import android.support.v4.view.ViewPager;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.support.v7.widget.Toolbar;
import android.widget.TableLayout;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
         super.onCreate(savedInstanceState);
         setContentView(R.layout.activity main);
        Toolbar toolbar=findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);
         TabLayout tl=findViewById(R.id.tablay);
        t1.addTab(t1.newTab().setText("JAVA"));
        t1.addTab(t1.newTab().setText("ANDROID"));
        t1.setTabGravity(TabLayout.GRAVITY FILL);
         final ViewPager vp=findViewById(R.id.viewPager);
        pagerAdapter adp=new pagerAdapter(getSupportFragmentManager(),tl.getTabCount());
        vp.setAdapter(adp);
        vp.addOnPageChangeListener(new TabLayout.TabLayoutOnPageChangeListener(tl));
        t1.addOnTabSelectedListener(new TabLayout.OnTabSelectedListener() {
            @Override
            public void onTabSelected(TabLayout.Tab tab) {
                vp.setCurrentItem(tab.getPosition());
            }
            @Override
            public void onTabUnselected(TabLayout.Tab tab) {
            @Override
            public void onTabReselected(TabLayout.Tab tab) {
        });
}
```

# PageAdapter.java

```
package com.example.mgm.tab;
jimport android.support.v4.app.Fragment;
import android.support.v4.app.FragmentManager;
import android.support.v4.app.FragmentStatePagerAdapter;
import com.example.mgm.tab.android;
class pagerAdapter extends FragmentStatePagerAdapter {
    int numofTabs;
    public pagerAdapter(FragmentManager fm,int nTabs){
        super(fm);
    numofTabs=nTabs;
    @Override
    public Fragment getItem(int position) {
         switch (position) {
             case 0:
                 return new javal();
             case 1:
                 return new android();
            default:
                return null;
    @Override
    public int getCount() { return numofTabs; }
}
```





## 9. DemoOnListeners

Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity"
    android:orientation="vertical">
    <Spinner android:layout_weight="0.8"</pre>
        android:id="@+id/spinner"
        android:layout width="match parent"
        android:layout height="0dp" />
    <ListView android:layout weight="1"</pre>
        android:id="@+id/listv1"
        android:layout width="wrap content"
        android:layout_height="0dp" />
    <RadioGroup
        android:layout weight="0.5"
        android:id="@+id/rgb"
        android:layout_width="wrap_content"
        android:layout_height="0dp"
        android:orientation="horizontal"
```

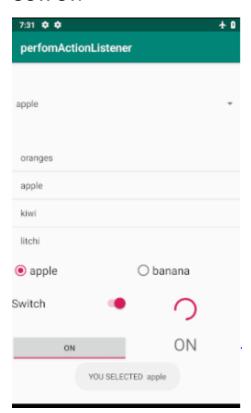
```
<RadioButton
             android:textSize="20dp"
             android:id="@+id/rb1"
             android:onClick="rclick"
             android:layout width="218dp"
             android:layout height="wrap content"
             android:text="apple" />
         <RadioButton
             android:textSize="20dp"
             android:id="@+id/rb2"
             android:onClick="rclick"
             android:layout width="186dp"
             android:layout height="match parent"
             android:text="banana" />
    </RadioGroup>
|<LinearLayout android:orientation="horizontal"</pre>
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout weight="0.1">
    <Switch
         android:layout weight="1"
         android:id="@+id/switch1"
         android:layout width="0dp"
         android:layout height="wrap content"
         android:text="Switch"
         android:textSize="20dp"/>
    <ProgressBar
        android:id="@+id/progressBar1"
        android:layout weight="1"
        style="?android:attr/progressBarStyle"
        android:layout width="0dp"
        android:layout height="wrap content" />
</LinearLayout>
    <LinearLayout
        android:layout width="match parent"
        android:layout height="0dp"
        android:layout weight="0.7"
        android:orientation="horizontal">
         <ToggleButton
            android:onClick="ontoggleclick"
            android:id="@+id/toggleButton"
            android:layout width="0dp"
             android:layout_height="wrap content"
             android:layout weight="1"
             android:text="ToggleButton" />
         <TextView
            android:id="@+id/tx"
            android:layout width="0dp"
            android:layout height="wrap_content"
            android:layout_weight="1"
            android:textAlignment="center"
            android:textSize="30dp"
           />
     </LinearLayout>
</LinearLayout>
```

## MainActivity.java

```
import ...
public class MainActivity extends AppCompatActivity
        implements AdapterView.OnItemSelectedListener,
        CompoundButton.OnCheckedChangeListener {
Spinner spinner1;
ListView listView1;
RadioGroup rgb11;
Switch switch1;
ProgressBar pb1;
ToggleButton toggleButton11;
TextView t1;
    RadioButton rb;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        spinner1 = findViewById(R.id.spinner);
        listView1 = findViewById(R.id.listv1);
        rgb11 = findViewById(R.id.rgb);
        switch1 = findViewById(R.id.switch1);
        pb1 = findViewById(R.id.progressBar1);
        pb1.setVisibility(View.INVISIBLE);
        toggleButton11 = findViewById(R.id.toggleButton);
        t1 = findViewById(R.id.tx);
        final List<String> l=new ArrayList<~>();
        1.add("orange");
        1.add("apple");
        1.add("mango");
        1.add("litchi");
```

```
ArrayAdapter <String> adp=
         new ArrayAdapter( context: this, android.R.layout.simple spinner item, 1);
 adp.setDropDownViewResource(android.R.layout.simple spinner dropdown item);
 spinner1.setAdapter(adp);
 spinner1.setOnItemSelectedListener(this);
 String st[]={"oranges", "apple", "kiwi", "litchi"};
 final ArrayAdapter <String> adpl=
         new ArrayAdapter( context: this, android.R.layout.simple list item 1, st);
 listView1.setAdapter(adpl);
 switch1.setOnCheckedChangeListener(this);
 listView1.setOnItemClickListener(new AdapterView.OnItemClickListener() {
     @Override
     public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
        String fruit="s";
         if (position==0) {
             fruit="orange";
         else if (position==1) {
             fruit ="apple";
         else if (position==2) {
             fruit="kiwi";
         }else if (position==3) {
           fruit="litchi";
         Toast.makeText(getApplication(), text: "you clicked "+fruit, Toast.LENGTH SHORT).show();
 });
    public void rclick(View v) {
        int rbid=rgb11.getCheckedRadioButtonId();
        rb=findViewById(rbid);
        Toast.makeText(getBaseContext(), text: "you clicked "+rb.getText(), Toast.LENGTH LONG).show();
    @Override
    public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
        String item=parent.getItemAtPosition(position).toString();
        Toast.makeText(parent.getContext(), text: "YOU SELECTED "+item, Toast.LENGTH LONG).show();
    1
    public void onNothingSelected(AdapterView<?> parent) {
public void ontoggleclick(View view) {
        if (toggleButton11.isChecked()) {
            t1.setText("ON");
        else{
          t1.setText("OFF");
1}
```

# 



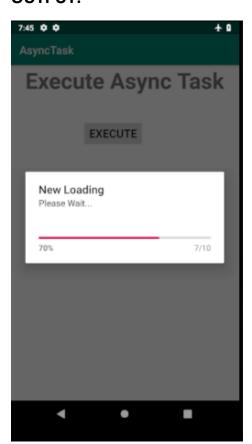
## 10. AsyncTask

## Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout android:orientation="vertical" xmlns:android="http://</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity">
    <TextView
         android:layout width="match parent"
         android:layout height="wrap content"
         android:text="Execute Async Task"
        android:textStyle="bold"
         android:textSize="40dp"
        android:textAlignment="center"
        />
     <Button
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:onClick="click"
         android:text="Execute"
         android:textSize="20dp"
         android:layout marginLeft="130dp"
         android:layout marginTop="45dp"/>
</LinearLayout>
```

#### MainActivity.java

```
@Override
    protected void onPreExecute() {
       pd=new ProgressDialog( context: MainActivity.this);
        pd.setTitle("New Loading");
        pd.setMessage("Please Wait...");
       pd.setMax(10);
       pd.setProgressStyle(ProgressDialog.STYLE HORIZONTAL);
    @Override
    protected void onProgressUpdate(Integer... values) {
       int val= values[0];
       pd.setProgress(val);
    @Override
    protected void onPostExecute(String s) {
        Toast.makeText( context: MainActivity.this,s,Toast.LENGTH SHORT).show();
       pd.dismiss();
public void click (View v) {
   usingAsync u=new usingAsync();
   u.execute();
}
```



# 11. MenuCode

## Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
|<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent" android:layout_height="match_parent" android:orientation="vertical"
    tools:context=".MainActivity"
    android:layout weight="2">
    <TextView
        android:layout weight="1"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:text="Hold For Context" android:textAlignment="center"
        android:paddingTop="70dp"
        android:textSize="60dp"
        android:id="@+id/tv1"
        android:onClick="onclick"
        android:background="@color/colorAccent"></TextView>
    <TextView
        android:layout_weight="1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Click Me For Popup"
        android:textAlignment="center"
        android:paddingTop="70dp"
        android:textSize="60dp"
        android:id="@+id/tv2"
        android:onClick="pop"
        android:background="@color/colorPrimary"/>
</LinearLayout>
```

#### contextmenu.xml

```
<?xml version="1.0" encoding="utf-8"?>
<function="1.0" encoding="utf-8"?>
<function="nttp://schemas.android.com/apk/res/android">
<item android:title="lion" android:id="@+id/cm1"></item>
<item android:title="tiger" android:id="@+id/cm2"></item>
</menu>
```

### Popupmenu.xml

### optionmenu.xml

### MainActivity.java

```
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
    1
   public void onclick(View v) {
      registerForContextMenu(v);
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.optionmenu, menu);
       return true;
   1
    @Override
   public boolean onOptionsItemSelected(MenuItem item) {
      Toast.makeText( context: this, text: "You clicked"+item.getTitle(), Toast.LENGTH SHORT).show();
 return super.onOptionsItemSelected(item);
      }
    @Override
    public void onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo menuInfo) {
        getMenuInflater().inflate(R.menu.contextmenu, menu);
       super.onCreateContextMenu(menu, v, menuInfo);
```









# 12.Job Scheduler

```
Activity main.xml
<@ml version="1.0" encoding="utf-8"?>
<LinearLayout android:orientation="vertical" xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity">
 <ToggleButton
       android:layout width="match parent"
       android:layout height="wrap content"
       android:id="@+id/t"/>
</LinearLayout>
MainActivity.java
package com.example.jobschedular;
import ...
public class MainActivity extends AppCompatActivity implements CompoundButton.OnCheckedChangeListener {
ToggleButton t;
JobScheduler sch;
JobInfo info;
    @Override
```

### @Override

t=findViewById(R.id.t);

t.setOnCheckedChangeListener(this);

protected void onCreate(Bundle savedInstanceState) {

sch=(JobScheduler)getSystemService(JOB SCHEDULER SERVICE);

super.onCreate(savedInstanceState);
setContentView(R.layout.activity main);

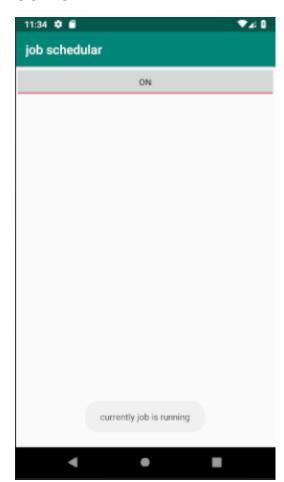
### DemoJob.java

```
package com.example.jobschedular;

import android.app.job.JobParameters;
import android.app.job.JobService;
)import android.widget.Toast;

public class DemoJob extends JobService {
    @Override
    public boolean onStartJob(JobParameters params) {
        Toast.makeText( context: this, text: "currently job is running", Toast.LENGTH_SHORT).show();
        return false;
}

@Override
    public boolean onStopJob(JobParameters params) { return false; }
}
```



# 13. Notification Manager

## Activity\_Main.xml

</LinearLayout>

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout android:orientation="vertical"</pre>
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity">
   <EditText
       android:layout width="match parent"
       android:layout height="0dp"
       android:id="@+id/e1"
       android:layout weight="1"/>
    <EditText
        android:layout width="match parent"
        android:layout height="0dp"
        android:id="@+id/e2"
        android:layout weight="1"/>
    <Button
        android:layout width="match parent"
        android:layout height="0dp"
        android:id="@+id/b1"
        android:layout weight="1"
        android:text="send1"
        android:onClick="sendOnChannel1"/>
    <Button
        android:layout width="match parent"
        android:layout height="0dp"
        android:id="@+id/b2"
        android:layout weight="1"
        android:text="send2"
        android:onClick="sendOnChannel2"
```

### MainActivity.java

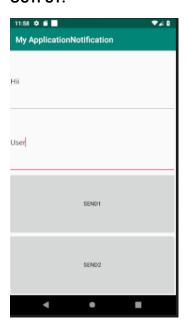
```
package com.example.myapplicationnotification;
import ...
public class MainActivity extends AppCompatActivity {
NotificationManagerCompat nm;
EditText e1,e2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        nm=NotificationManagerCompat.from(this);
        e1=findViewById(R.id.e1);
        e2=findViewById(R.id.e2);
 public void sendOnChannell(View v) {
    String title=e1.getText().toString();
     String message=e2.getText().toString();
    Notification n=
      new NotificationCompat.Builder( context: this, channel 1 id).setSmallIcon(R.drawable.ic launcher background)
            .setContentTitle(title)
            .setContentText(message)
            .setPriority(NotificationCompat.PRIORITY HIGH)
            .setCategory(NotificationCompat.CATEGORY MESSAGE)
            .build();
     nm.notify( id: 1,n);
    public void sendOnChannel2(View v) {
       String title=e1.getText().toString();
       String message=e2.getText().toString();
       Notification n=
new NotificationCompat.Builder( context: this, channel_2_id).setSmallIcon(R.drawable.ic_launcher_background)
               .setContentTitle(title)
               .setContentText(message)
               .setPriority(NotificationCompat.PRIORITY LOW)
               .setCategory(NotificationCompat.CATEGORY_MESSAGE)
               .build();
       nm.notify( id: 2,n);
    }
```

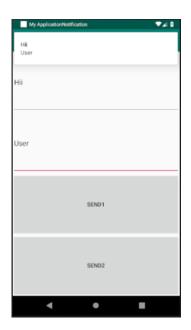
### NoteApp.java

```
package com.example.myapplicationnotification;
import ...
public class NoteApp extends Application {
    public static final String channel_1_id="channel1";
     public static final String channel 2 id="channel2";
     @Override
    public void onCreate() {
         super.onCreate();
         createNotificationsChannels();
    private void createNotificationsChannels() {
       if (Build.VERSION.SDK INT>=Build.VERSION_CODES.O) {
           NotificationChannel channell=
            new NotificationChannel(channel_1_id, name: "channel1", NotificationManager.IMPORTANCE_HIGH);
           channell.setDescription("this is channel1");
           NotificationChannel channel2=
            new NotificationChannel(channel 2 id, name: "channel2", NotificationManager. IMPORTANCE LOW);
           channel2.setDescription("this is channel2");
           NotificationManager manager=getSystemService(NotificationManager.class);
           manager.createNotificationChannel(channell);
           manager.createNotificationChannel(channel2);
}
```

#### Manifest.xml

android:name=".NoteApp"





# 14. Alaram Manager

# Activity\_Main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical"
    tools:context=".MainActivity"
    android:layout weight="6">
    <TextView
        android:id="@+id/textView"
        android:layout width="match parent"
        android:layout_height="wrap_content"
        android:text="TextView" />
    <Button
        android:id="@+id/button"
        android:layout width="match parent"
        android:layout_height="wrap_content"
        android:text="Cancel"
        android:onClick="cancelAlarm"
    <Button
        android:id="@+id/button2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="setAlarm"
        android:onClick="setAlarm"
</LinearLayout>
```

### TimeFragment.java

```
package com.example.myapplication;
import android.app.Dialog;
import android.app.TimePickerDialog;
import android.os.Bundle;
import android.support.annotation.NonNull;
import android.support.annotation.Nullable;
\textbf{import} \  \, \textbf{android.support.v4.app.DialogFragment};
import android.text.format.DateFormat;
import java.util.Calendar;
public class TimeFragment extends DialogFragment {
    @NonNull
    @Override
    public Dialog onCreateDialog(@Nullable Bundle savedInstanceState) {
        Calendar c=Calendar.getInstance();
        int hour=c.get(Calendar.HOUR_OF_DAY);
        int minute=c.get(Calendar.MINUTE);
        return new TimePickerDialog(getActivity(),(TimePickerDialog.OnTimeSetListener)getActivity(),hour,minute, DateFormat.is24HourFormat(getActivity()));
```

#### AlarmReceiver.java

```
package com.example.myapplication;

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

public class AlarmaReceiver extends BroadcastReceiver {
    @Override
    public void onReceive(Context context, Intent intent) {
        Toast.makeText(context, text: "Alarm ringing.....", Toast.LENGTH_LONG).show();
    }
}
```

#### Manifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    package="com.example.myapplication" >
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="My Application"
        android:roundIcon="@mipmap/ic_launcher_round"
        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=".AlarmaReceiver"></receiver>

</application>
</manifest>
```

### MainActivity.java

```
package com.example.myapplication;
import ...
public class MainActivity extends AppCompatActivity implements TimePickerDialog.OnTimeSetListener {
   TextView t0:
    Button btn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        t0=findViewById(R.id.textView);
    public void setAlarm(View v){
        DialogFragment timePicker=new TimeFragment();
        timePicker.show(getSupportFragmentManager(), tag: "time picker");
   @Override
    public void onTimeSet(TimePicker view, int hourOfDay, int minute) {
        Calendar c=Calendar.getInstance();
        c.set(Calendar.HOUR_OF_DAY, hourOfDay);
        c.set(Calendar.MINUTE, minute);
        c.set(Calendar.SECOND, 0);
        updateTime(c);
        startAlarm(c);
```

```
private void updateTime(Calendar c){
        String time="Alarm set for :";
        time+= DateFormat.getTimeInstance(DateFormat.SHORT).format(c.getTime());
        t0.setText(time);
    private void startAlarm(Calendar c) {
        AlarmManager am= (AlarmManager) getSystemService(Context.ALARM SERVICE);
        Intent i=new Intent( packageContext: this,AlarmaReceiver.class);
        PendingIntent p=PendingIntent.getBroadcast( context: this, requestCode: 1,i, flags: 0);
        if(c.before(Calendar.getInstance())){
            c.add(Calendar.DATE, amount: 1);
        if (Build.VERSION.SDK INT >= Build.VERSION CODES.KITKAT) {
            am.setExact(AlarmManager.RTC WAKEUP, c.getTimeInMillis(), p);
    public void cancelAlarm(View v){
        AlarmManager am= (AlarmManager) getSystemService(Context.ALARM_SERVICE);
        Intent i=new Intent( packageContext: this,AlarmaReceiver.class);
        PendingIntent p=PendingIntent.getBroadcast( context: this, requestCode: 1,i, flags: 0);
        am.cancel(p);
        t0.setText("Alarm Canceled");
}
```







# 15. Multiple Types Of Input Fields

Activity\_Main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   tools:context=".MainActivity"
   android:orientation="vertical"
   android:layout_weight="5">
   <LinearLayout
       android:layout_width="match_parent"
       android:layout_height="27dp"
       android:layout_weight="1"
       android:orientation="horizontal">
       <TextView
          android:id="@+id/textview0"
          android:layout_width="140dp"
          android:layout height="58dp"
          android:text="Name"></TextView>
      <EditText
          android:id="@+id/edittext1"
          android:layout width="333dp"
          android:layout height="66dp"
          android:hint="EditTextField" />
   </LinearLayout>
     <LinearLayout
          android:layout_width="515dp"
          android:layout height="67dp"
          android:layout weight="1"
          android:orientation="horizontal">
          <TextView
               android:id="@+id/textview1"
               android:layout_width="141dp"
               android:layout_height="58dp"
               android:text="Password"></TextView>
          <EditText
               android:id="@+id/editText2"
               android:layout_width="354dp"
               android:layout_height="91dp"
               android:ems="10"
               android:hint="textPasswordField"
               android:inputType="textPassword" />
    </LinearLayout>
```

```
<LinearLayout
       android:layout_width="match_parent"
       android:layout_height="wrap_content"
       android:layout_weight="1"
       android:orientation="horizontal">
android:id="@+id/text2view"
           android:layout_width="150dp"
           android:layout_height="58dp"
           android:text="Address" />
       <EditText
           android:id="@+id/editText3"
           android:layout_width="wrap_content"
           android:layout_height="68dp"
           android:layout weight="1"
           android:ems="10"
           android:hint="TextMultilineField"
           android:inputType="textMultiLine" />
   </LinearLayout>
   <LinearLayout
       android:layout width="match parent"
       android:layout height="72dp"
       android:layout weight="1"
       android:orientation="horizontal">
       <TextView
           android:layout width="142dp"
           android:layout height="58dp"
           android:text="Email"
           android:id="@+id/textview3"/>
       <EditText
           android:id="@+id/editText4"
           android:layout width="424dp"
           android:layout_height="77dp"
           android:layout weight="1"
           android:ems="10"
           android:inputType="textEmailAddress"
           android:hint="textEmailAddressField"/>
    <LinearLayout
         android:layout_width="match_parent"
         android:layout_height="72dp"
         android:layout_weight="1"
         android:orientation="horizontal">
         <TextView
               android:layout_width="150dp"
               android:layout_height="58dp"
               android:text="Contact"
               android:id="@+id/text5"/>
         <EditText
               android:id="@+id/editText5"
              android:layout_width="wrap_content"
android:layout_height="78dp"
android:layout_weight="1"
              android:ems="10"
              android:maxLength="10"
              android:inputType="number"
android:hint="NumberField"/>
    </LinearLayout>
</LinearLayout>
```



# 16.Shape demo

### Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
</p
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity"
    android:layout weight="4">
    <LinearLayout
       android:layout width="match parent"
       android:layout height="match parent"
       android:layout weight="2"
       android:background="@drawable/buttonshape"
       android:orientation="horizontal">
       <LinearLayout
           android:layout width="match parent"
           android:layout height="match parent"
           android:layout weight="2"
           android:background="@drawable/buttonshape"
           android:orientation="horizontal">
     <TextView
         android:id="@+id/textView2"
         style="@style/textcolor.textback1"
         android:layout width="0dp"
         android:layout height="wrap content"
         android:layout marginLeft="20dp"
         android:layout marginRight="25dp"
         android:layout marginTop="140dp"
         android:layout weight="1"
         android:gravity="center"
         android:text="Shinchan"
         android:textStyle="bold"
         android:textSize="25dp"
 </LinearLayout>
 <LinearLayout
     android:layout width="match parent"
     android:layout height="match parent"
     android:layout weight="2"
     android:background="@drawable/buttonshape"
     android:orientation="horizontal">
```

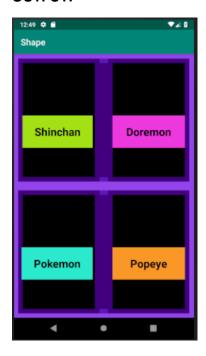
```
<TextView
           android:id="@+id/textView"
            style="@style/textcolor.textback2"
           android:layout width="0dp"
            android:layout height="wrap content"
            android:layout marginLeft="20dp"
            android:layout marginTop="140dp"
            android:layout marginRight="20dp"
            android:layout weight="1"
            android:gravity="center"
            android:text="Doremon"
            android:textStyle="bold"
            android:textSize="25dp"
   </LinearLayout>
</LinearLayout>
<LinearLayout
   android:background="@drawable/buttonshape"
   android:layout width="match parent"
   android:layout weight="2"
   android:layout height="match parent"
   android:orientation="horizontal">
   <LinearLayout
       android:layout width="match parent"
        android:layout height="match parent"
        android:layout weight="2"
       android:background="@drawable/buttonshape"
       android:orientation="horizontal">
        <TextView
            android:id="@+id/textView3"
            style="@style/textcolor.textback3"
           android:layout width="0dp"
            android:layout height="wrap content"
            android:layout weight="1"
           android:gravity="center"
            android:layout marginTop="140dp"
            android:layout marginLeft="18dp"
            android:layout marginRight="25dp"
            android:text="Pokemon"
            android:textStyle="bold"
            android:textSize="25dp"
           />
   </LinearLayout>
```

```
<LinearLayout
        android:layout width="match parent"
        android:layout height="match parent"
        android:layout weight="2"
        android:background="@drawable/buttonshape"
        android:orientation="horizontal">
        <TextView
            android:id="@+id/textView4"
            style="@style/textcolor.textback4"
           android:layout width="0dp"
            android:layout_height="wrap_content"
            android:layout weight="1"
            android:gravity="center"
            android:layout marginTop="140dp"
            android:layout marginLeft="20dp"
            android:layout marginRight="20dp"
            android:text="Popeye"
            android:textStyle="bold"
            android:textSize="25dp">
        </TextView>
        </LinearLayout>
    </LinearLayout>
</LinearLayout>
Buttonshape.xml
<?xml version="1.0" encoding="utf-8"?>
|<shape xmlns:android="http://schemas.android.com/apk/res/android"</pre>
     android:shape="rectangle">
     <stroke
         android:width="20dp"
         android:color="#8d7817e6"></stroke>
     <solid android:color="#000000"></solid>
</shape>
```

## Styles.xml

```
<resources>
```

```
<!-- Base application theme. -->
<style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">
    <!-- Customize your theme here. -->
    <item name="colorPrimary">@color/colorPrimary</item>
    <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
    <item name="colorAccent">@color/colorAccent</item>
</style>
<style name="themepad">
    <item name="android:padding">20dp</item>
</style>
<style name="textcolor" parent="themepad">
    <item name="android:textColor">#000000</item>
</style>
<style name="textcolor.textback1">
    <item name="android:background">#a3e114</item>
</style>
<style name="textcolor.textback2">
    <item name="android:background">#ed37de</item>
</style>
<style name="textcolor.textback3">
    <item name="android:background">#FF2BE9CC</item>
</style>
<style name="textcolor.textback4">
    <item name="android:background">#FFF99728</item>
</style>
```



# 17. Registration Form

## Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical"
    tools:context=".Form">
    <TextView
        android:id="@+id/txt1"
        android:layout_width="match_parent"
        android:layout height="wrap content"
        android:text="REGISTERATION FORM"
        android:textAlignment="center"
        android:textColor="@color/colorAccent"
        android:textSize="20sp"
        android:textStyle="bold" />
    <LinearLayout
        android:layout_width="match_parent"
        android:layout height="0dp"
        android:layout weight="1">
        <TextView
            android:layout width="0dp"
            android:layout height="match parent"
            android:layout weight="1"
            android:gravity="center"
            android:text="NAME"
            android:textColor="@color/colorAccent"
        android:textSize="14sp"
        android:textStyle="bold" />
    <EditText
        android:id="@+id/edit1"
        android:layout width="0dp"
        android:layout height="match parent"
        android:layout weight="4"
        android:hint="Type here" />
```

</LinearLayout>

```
<LinearLayout
    android:layout width="match parent"
    android:layout height="0dp"
    android:layout weight="1">
    <TextView
        android:layout width="0dp"
        android:layout height="match parent"
        android:layout weight="1"
        android:gravity="center"
        android:text="SURNAME"
        android:textColor="@color/colorAccent"
        android:textSize="14sp" />
    <EditText
        android:id="@+id/edit2"
        android:layout width="0dp"
        android:layout height="match parent"
        android:layout weight="4"
        android:hint="Type here" />
</LinearLayout>
<LinearLayout
    android:layout width="match parent"
    android:layout height="0dp"
    android:layout weight="1">
<TextView
    android:layout width="0dp"
    android:layout height="match parent"
    android:layout weight="1"
    android:gravity="center"
    android:text="GENDER"
    android:textColor="@color/colorAccent"
    android:textSize="14sp"
    android:textStyle="bold" />
<RadioGroup
    android:id="@+id/rgroup"
    android:layout width="0dp"
    android:layout height="match parent"
    android:layout weight="4"
    android:orientation="horizontal">
```

```
<RadioButton
            android:id="@+id/rbtn1"
            android:layout width="0dp"
            android:layout height="match parent"
            android:layout weight="2"
            android:text="MALE" />
        <RadioButton
            android:id="@+id/rbtn2"
            android:layout width="0dp"
            android:layout height="match parent"
            android:layout weight="2"
            android:text="FEMALE" />
    </RadioGroup>
</LinearLayout>
<LinearLayout
    android:layout width="match parent"
    android:layout height="0dp"
    android:layout weight="1">
    <TextView
        android:layout width="0dp"
        android:layout height="match parent"
        android:layout weight="1"
        android:gravity="center"
        android:text="CONTACT"
        android:textColor="@color/colorAccent"
        android:textSize="14sp"
        android:textStyle="bold" />
    <EditText
        android:id="@+id/edit3"
        android:layout width="0dp"
        android:layout height="match parent"
        android:layout weight="4"
        android:hint="Type here" />
</LinearLayout>
<LinearLayout
    android:layout width="match parent"
    android:layout height="0dp"
    android:layout_weight="1"
    android:gravity="center">
```

```
<TextView
   android:layout width="0dp"
   android:layout height="match parent"
    android:layout weight="1"
   android:gravity="center"
   android:text="COURSES"
   android:textColor="@color/colorAccent"
   android:textSize="14sp"
   android:textStyle="bold" />
<LinearLayout
   android:layout width="0dp"
   android:layout height="wrap content"
   android:layout weight="4"
   android:orientation="vertical">
    <LinearLayout
       android:layout width="match parent"
       android:layout height="0dp"
       android:layout_weight="0.5"
        <CheckBox
            android:id="@+id/chk1"
            android:layout width="0dp"
            android:layout height="wrap content"
            android:layout weight="2"
            android:text="JAVA" />
```

```
<CheckBox
           android:id="@+id/chk2"
           android:layout width="0dp"
           android:layout height="wrap content"
           android:layout weight="2"
           android:text="ANDROID" />
   </LinearLayout>
   <LinearLayout
       android:layout width="match parent"
       android:layout height="0dp"
       android:layout weight="0.5"
       <CheckBox
           android:id="@+id/chk3"
           android:layout width="0dp"
           android:layout height="wrap content"
           android:layout weight="2"
           android:text="ALGORITHMS" />
       <CheckBox
           android:id="@+id/chk4"
           android:layout width="0dp"
           android:layout_height="wrap_content"
           android:layout weight="2"
           android:text="WEB" />
        </LinearLayout>
   </LinearLayout>
</LinearLayout>
<LinearLayout
   android:layout width="match parent"
   android:layout height="0dp"
   android:layout weight="1">
   <TextView
        android:layout width="0dp"
        android:layout height="match parent"
        android:layout weight="1"
        android:gravity="center"
        android:text="MONTHS SUBSCRIPTION"
        android:textColor="@color/colorAccent"
        android:textSize="14sp"
        android:textStyle="bold" />
```

```
<Spinner
        android:id="@+id/spin1"
        android:layout_width="0dp"
        android:layout height="match parent"
        android:layout weight="1"
        android:gravity="center" />
</LinearLayout>
<LinearLayout
    android:layout width="match parent"
    android:layout height="0dp"
    android:layout weight="1">
    <TextView
        android:layout width="0dp"
        android:layout height="match parent"
        android:layout weight="1"
        android:gravity="center"
        android:text="TEST ASSISTANCE"
        android:textColor="@color/colorAccent"
        android:textSize="14sp"
        android:textStyle="bold" />
        <Switch
            android:id="@+id/switch1"
            android:layout width="0dp"
            android:layout height="match parent"
            android:layout weight="1"
            android:gravity="center" />
    </LinearLayout>
    <LinearLayout
        android:layout width="match parent"
        android:layout height="0dp"
        android:layout weight="1">
        <Button
            android:id="@+id/btn"
            android:layout width="0dp"
            android:layout height="match parent"
            android:layout weight="2"
            android:onClick="btnClick"
            android:text="SUBMIT"
            android:textColor="@color/colorAccent"
            android:textSize="14sp"
            android:textStyle="bold" />
    </LinearLayout>
</LinearLayout>
```

