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## **TOAST(BILL GENERATION)**

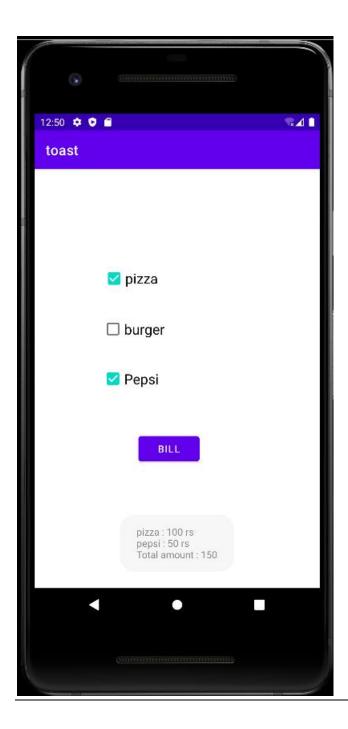
### Xml file:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
   <CheckBox
       android:id="@+id/c2"
       android:layout width="216dp"
       android:layout height="49dp"
       android:text="burger"
       android:textSize="20sp"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintHorizontal bias="0.498"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.371" />
   <CheckBox
       android:id="@+id/c1"
       android:layout width="213dp"
       android:layout height="48dp"
       android:text="pizza"
       android:textSize="20sp"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout_constraintHorizontal bias="0.498"
       app:layout_constraintStart toStartOf="parent"
       app:layout_constraintTop_toTopOf="parent"
       app:layout constraintVertical bias="0.24" />
   <CheckBox
       android:id="@+id/c3"
       android:layout width="212dp"
       android:layout_height="53dp"
       android:text="Pepsi"
       android:textSize="20sp"
       app:layout_constraintBottom_toBottomOf="parent"
       app:layout_constraintEnd toEndOf="parent"
       app:layout_constraintHorizontal bias="0.487"
       app:layout_constraintStart_toStartOf="parent"
       app:layout constraintTop toTopOf="parent" />
       android:id="@+id/button"
       android:layout_width="wrap_content"
       android:layout_height="wrap_content"
       android:text="Bill"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout_constraintHorizontal bias="0.463"
```

```
app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.682" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

### Java code

```
package com.example.toast;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       Button b1=(Button)findViewById(R.id.button);
       CheckBox c1=(CheckBox) findViewById(R.id.c1);
       CheckBox c2=(CheckBox) findViewById(R.id.c2);
       CheckBox c3=(CheckBox) findViewById(R.id.c3);
       b1.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View view) {
                StringBuilder output = new StringBuilder();
                int total=0;
                if(c1.isChecked())
                    total=total+100;
                    output.append("pizza : 100 rs");
                if(c2.isChecked())
                    total=total+75;
                    output.append("\nBurger : 75 rs");
                if(c3.isChecked())
                    total=total+50;
                    output.append("\npepsi : 50 rs");
                Toast.makeText(getApplicationContext(),output+"\n"+"Total amount :
'+total, Toast. LENGTH LONG) .show();
```



## **Rating Bar**

### Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
   <RatingBar
       android:id="@+id/rate"
       android:layout width="228dp"
       android:layout height="82dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.497"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.385" />
       android:id="@+id/button"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="view rating"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.498"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.576" />
 /androidx.constraintlayout.widget.ConstraintLayout>
```

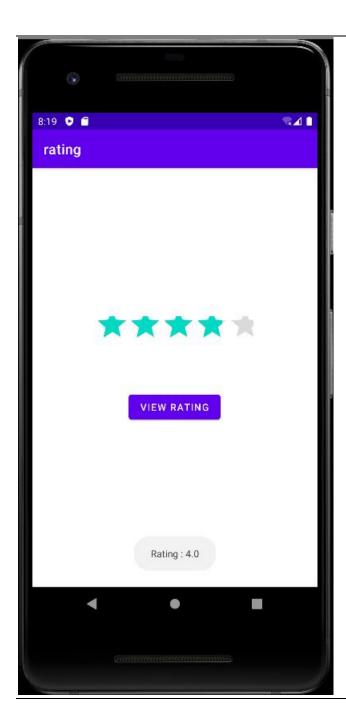
### Java code

```
package com.example.rating;
import androidx.appcompat.app.AppCompatActivity;
import android.media.Rating;
import android.view.View;
import android.widget.Button;
import android.os.Bundle;
import android.widget.RatingBar;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

```
public void function(View v)
{
    RatingBar r=(RatingBar)findViewById(R.id.rate);
    String rating=String.valueOf(r.getRating());
    Toast.makeText(getApplicationContext(),"Rating:
"+rating,Toast.LENGTH_LONG).show();
}
}
```

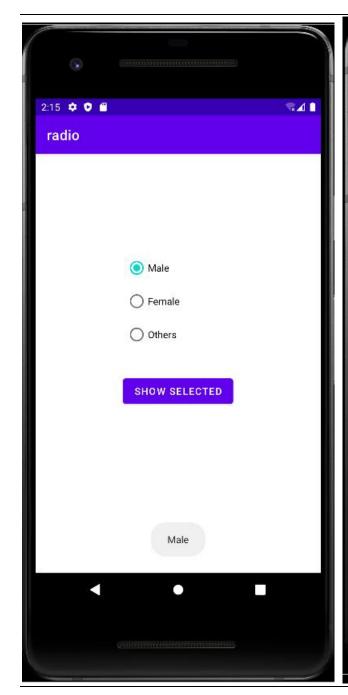


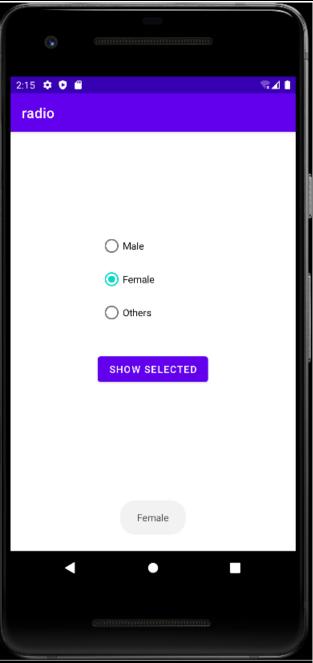
# **RADIO BUTTON**

### Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
    < Radio Group
        android:layout width="152dp"
        android:layout_height="144dp"
        android:id="@+id/radiogroup"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.304">
        <RadioButton
            android:id="@+id/male"
            android:layout width="match parent"
            android:layout height="wrap content"
            android:text="Male"
            app:layout constraintEnd toEndOf="parent"
            app:layout constraintStart toStartOf="parent" />
        <RadioButton
            android:id="@+id/female"
            android:layout width="match parent"
            android:layout height="wrap content"
            android:text="Female"
            app:layout constraintEnd toEndOf="parent"
            app:layout constraintStart toStartOf="parent" />
        <RadioButton
            android:layout width="match parent"
            android:layout_height="wrap_content"
android:text="Others"
            app:layout constraintEnd toEndOf="parent"
            app:layout constraintStart toStartOf="parent" />
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Show selected"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.571" />
 /androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.radio;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
   @Override
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       RadioGroup rg=(RadioGroup) findViewById(R.id.radiogroup);
       Button b1=(Button) findViewById(R.id.button);
       b1.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View view) {
                int result=rg.getCheckedRadioButtonId();
                RadioButton radio=(RadioButton) findViewById(result);
                String temp=radio.getText().toString();
                Toast.makeText(getApplicationContext(),temp,Toast.LENGTH LONG).show();
```



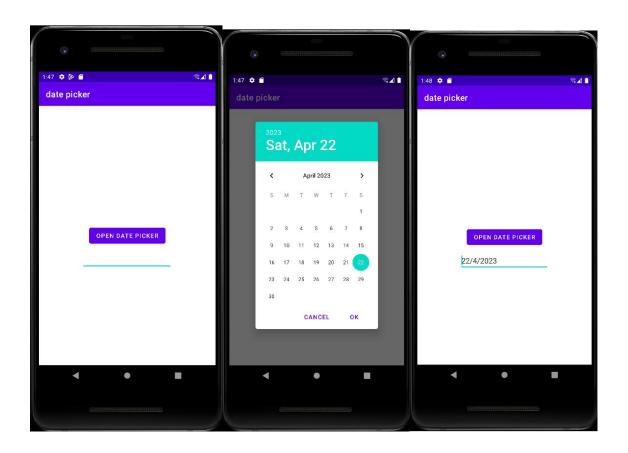


## **DATE PICKER**

### Acitivity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
       android:id="@+id/button"
       android:layout width="wrap content"
       android:layout height="wrap content"
        android:text="Open Date Picker"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent" />
   <EditText
       android:id="@+id/editTextTextPersonName"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:ems="10"
        android:inputType="textPersonName"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintHorizontal bias="0.497"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.6" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.datepicker;
import androidx.appcompat.app.AppCompatActivity;
import android.app.DatePickerDialog;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Button;
import android.widget.EditText;
import android.widget.EditText;
import java.util.Calendar;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button butt=(Button)findViewById(R.id.button);
        EditText disptxt=(EditText)findViewById(R.id.editTextTextPersonName);
```



## **TIME PICKER**

### Activity main.xml

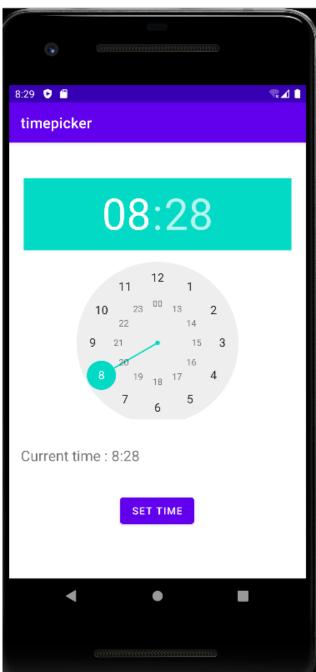
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout width="match parent"
   android:layout height="match parent"
   tools:context=".MainActivity">
       android:id="@+id/button"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Set Time"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.498"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.874" />
    <TextView
       android:id="@+id/textView"
        android:layout width="272dp"
        android:layout height="52dp"
        android:textSize="20sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.115"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.761" />
   <TimePicker
        android:id="@+id/time"
        android:layout width="371dp"
        android:layout height="334dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.181"
        tools:ignore="MissingConstraints" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

### Java code

```
package com.example.timepicker;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.TimePicker;
```

```
oublic class MainActivity extends AppCompatActivity {
   TimePicker t;
   Button b1;
   TextView txt;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       b1 = (Button) findViewById(R.id.button);
       t = (TimePicker) findViewById(R.id.time);
       txt = (TextView) findViewById(R.id.textView);
       t.setIs24HourView(true);
       b1.setOnClickListener(new View.OnClickListener() {
           public void onClick(View view) {
               txt.setText(getCurrentTime());
   public String getCurrentTime()
       String time="Current time : "+t.getCurrentHour()+":"+t.getCurrentMinute();
       return time;
```





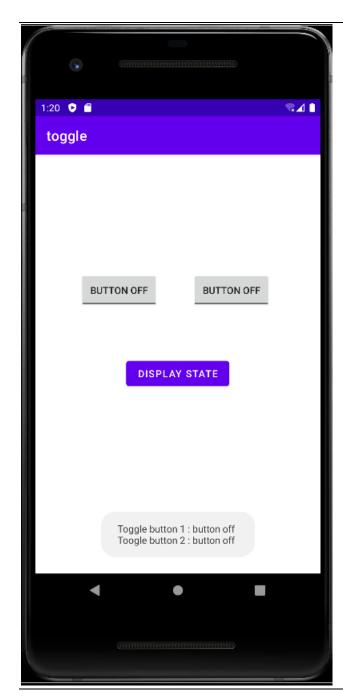
# **TOGGLE BUTTON**

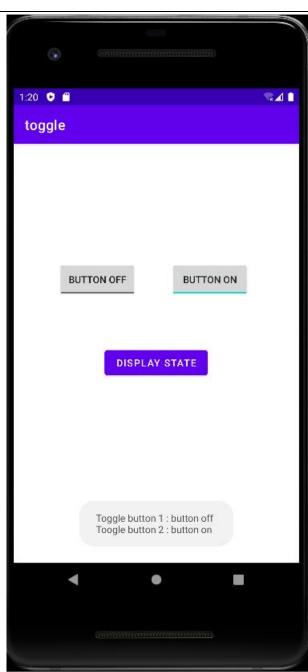
### Activity main.xml

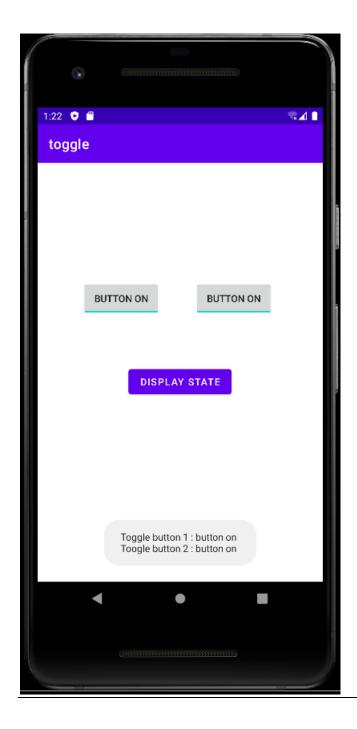
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity">
    <ToggleButton
        android:id="@+id/toggleButton"
        android:layout width="113dp"
        android:layout_height="51dp"
        android:text="ToggleButton"
        android:textOff="button off"
        android:textOn="button on"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.214"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.307" />
    <ToggleButton
        android:id="@+id/toggleButton2"
        android:layout width="113dp"
        android:layout height="51dp"
        android:text="ToggleButton"
        android:textOff="button off"
        android:textOn="button on"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal bias="0.758"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.307" />
    <Button
        android:id="@+id/button"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:text="Display state"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical bias="0.524"
 /androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.toggle;
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
import android.widget.ToggleButton;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button b1=(Button)findViewById(R.id.button);
        b1.setOnClickListener(new View.OnClickListener() {
            public void onClick(View view) {
                ToggleButton t1=(ToggleButton) findViewById(R.id.toggleButton);
                ToggleButton t2=(ToggleButton) findViewById(R.id.toggleButton2);
                StringBuilder result=new StringBuilder();
                String a=t1.getText().toString();
                String b=t2.getText().toString();
                result.append("Toggle button 1 : "+a);
                result.append("\nToogle button 2 : "+b);
Toast.makeText(getApplicationContext(),result,Toast.LENGTH_LONG).show();
        });
```







### **SEEK BAR**

#### Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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">

    <SeekBar
        android:id="@+id/seekBar"
        android:layout_width="315dp"
        android:layout_height="47dp"
        android:layout_height="47dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.412" />

</androidx.constraintlayout.widget.ConstraintLayout>
```



# **SPINNER**

### **Activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
        android:id="@+id/spinner"
        android:layout width="395dp"
        android:layout height="78dp"
        android:entries="@array/course"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.454" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

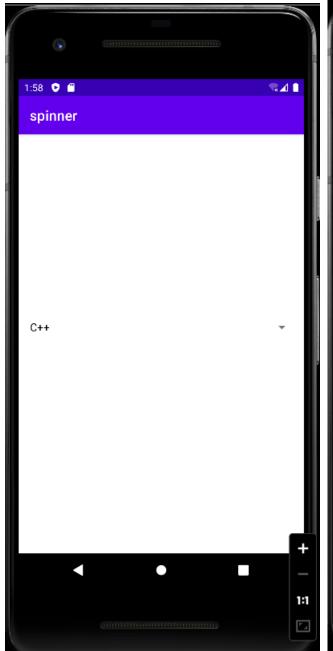
### Strings.xml

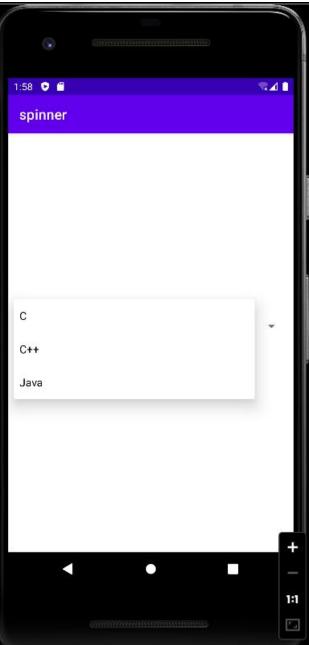
```
package com.example.spinner;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        String[] course={"C","C++","Java"};
        Spinner sp=(Spinner) findViewById(R.id.spinner);
```





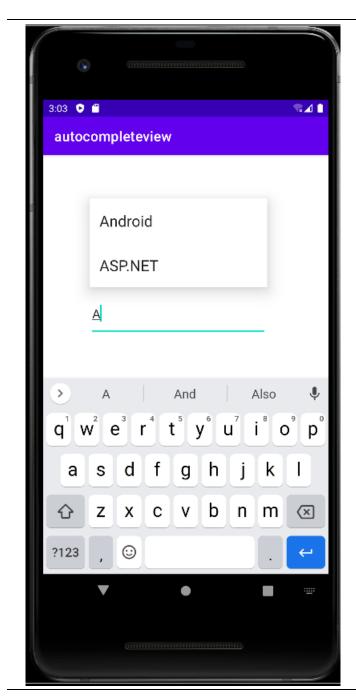


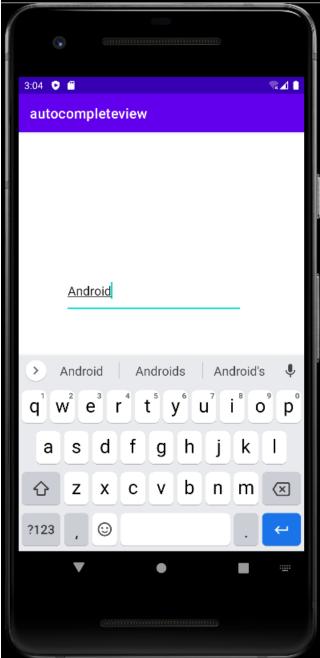
## **AUTO COMPLETE TEXT VIEW**

### Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
    <AutoCompleteTextView
        android:id="@+id/autoCompleteTextView"
        android:layout width="256dp"
        android:layout height="65dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.432"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.364" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.autocompleteview;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.AutoCompleteTextView;
public class MainActivity extends AppCompatActivity {
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        String[] lan={"C","C++","Java",".NET","Android","ASP.NET","PHP"};
        ArrayAdapter<String> adp=new ArrayAdapter<>(this,
android.R.layout.select dialog item,lan);
        AutoCompleteTextView at=(AutoCompleteTextView)
findViewById(R.id.autoCompleteTextView);
        at.setThreshold(1); //from 1st char
        at.setAdapter(adp);
```





### THREE IMAGES WITH BUTTON

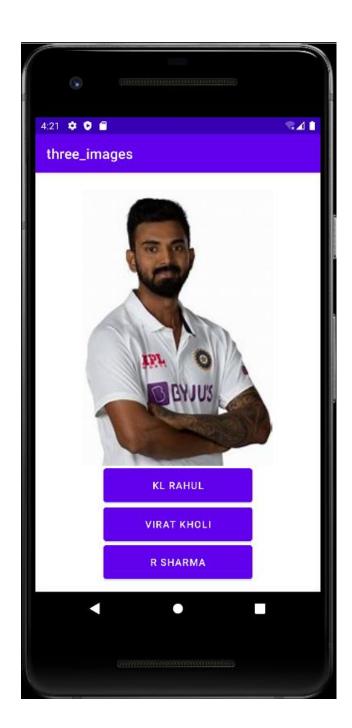
### Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
    <ImageView</pre>
        android:id="@+id/imageView"
        android:layout width="352dp"
        android:layout height="398dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.491"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.117"
        tools:srcCompat="@tools:sample/avatars" />
    <Button
        android:id="@+id/b1"
        android:layout width="215dp"
        android:layout height="60dp"
        android:onClick="Loadimage"
        android:text="Kl Rahul"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.773" />
    <Button
        android:id="@+id/b2"
        android:layout width="215dp"
        android:layout height="60dp"
        android:onClick="Loadimage"
        android:text="Virat Kholi"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.876" />
    <Button
```

```
android:id="@+id/b3"
android:layout_width="215dp"
android:layout_height="60dp"
android:onClick="Loadimage"
android:text="R Sharma"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.976" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.three images;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.*;
public class MainActivity extends AppCompatActivity {
    //YUVARAJ 20BCA0114
    @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
   public void Loadimage(View view)
        ImageView img1=(ImageView) findViewById(R.id.imageView);
        switch(view.getId())
            case R.id.b1:
                img1.setImageResource(R.drawable.rahul);
                break;
            case R.id.b2:
                img1.setImageResource(R.drawable.kholi);
                break;
            case R.id.b3:
                img1.setImageResource(R.drawable.rohit);
                break;
```









# **LISTVIEW**

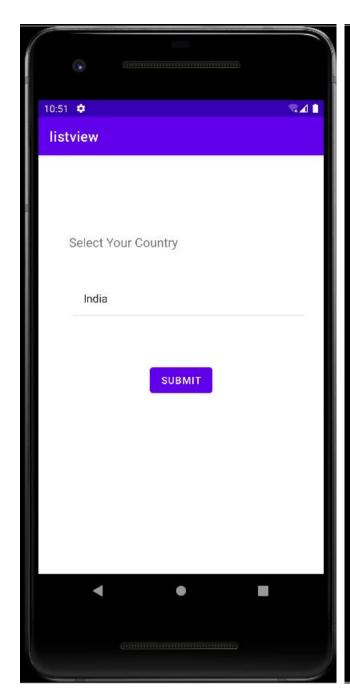
### Activity main.xml

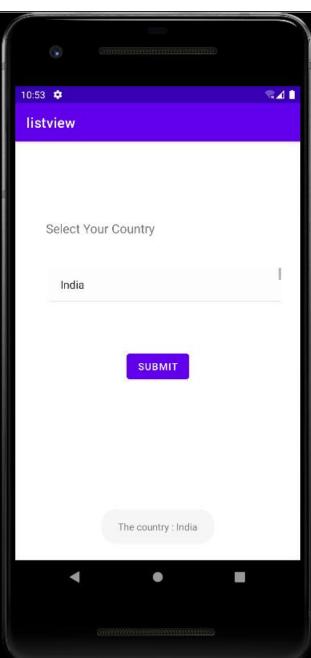
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView2"
        android:layout width="189dp"
        android:layout_height="43dp"
        android:text="Select Your Country"
        android:textSize="18sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.198"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.201" />
    <ListView
        android:layout_width="335dp"
        android:layout_height="50dp"
        android:id="@+id/listview"
        android:entries="@array/country"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.64"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.328" />
    <Button
        android:id="@+id/button2"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Submit"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.501"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.54" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.listview;
import androidx.appcompat.app.AppCompatActivity;
```

```
.mport android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        String[] arr={"India", "China", "Japan"};
        ArrayAdapter<String> adp=new ArrayAdapter<>(getApplicationContext(),
android.R.layout.simple list item 1,arr);
        ListView lv=(ListView) findViewById(R.id.listview);
        Button b1=(Button) findViewById(R.id.button2);
        lv.setAdapter(adp);
        lv.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long
                String str=(String) lv.getItemAtPosition(i);
                Toast.makeText(getApplicationContext(),"The country :
"+str,Toast.LENGTH LONG).show();
        });
```

### strings.xml





# **CUSTOM LISTVIEW**

### Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
    <ListView
        android:layout width="306dp"
        android:id="@+id/list1"
        android:layout height="294dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.491"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.459" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

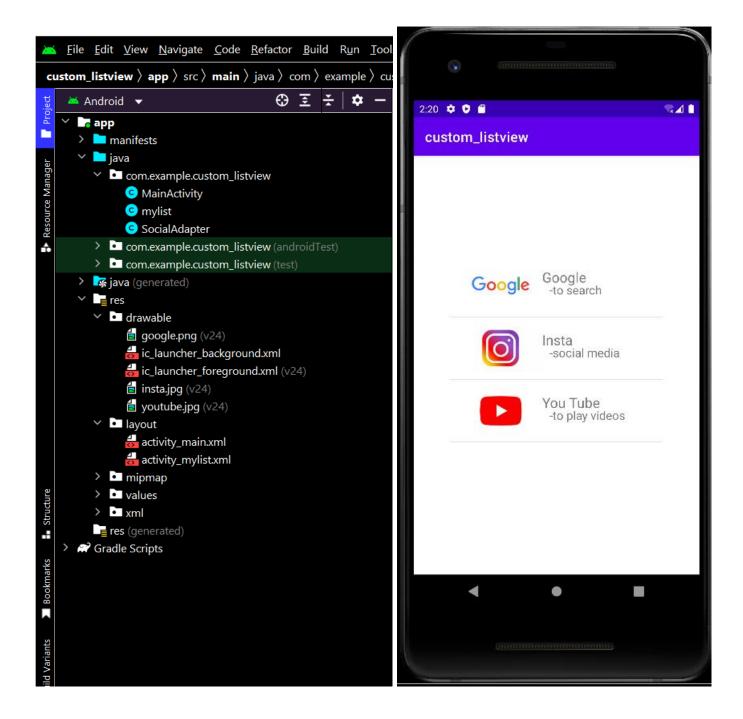
### Activity\_mylist.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
   xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   android:layout_width="match parent"
   android:layout_height="match_parent"
   tools:context=".mylist">
   <ImageView</pre>
       android:id="@+id/icon"
       android:layout width="123dp"
       android:layout height="89dp"
       app:layout_constraintBottom_toBottomOf="parent"
       app:layout_constraintEnd toEndOf="parent"
       app:layout_constraintHorizontal bias="0.065"
       app:layout_constraintStart_toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       tools:srcCompat="@tools:sample/avatars" />
   <TextView
       android:id="@+id/title1"
       android:layout width="162dp"
       android:layout height="48dp"
       android:text="TextView"
       android:textSize="20sp"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintHorizontal bias="0.924"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.459" />
```

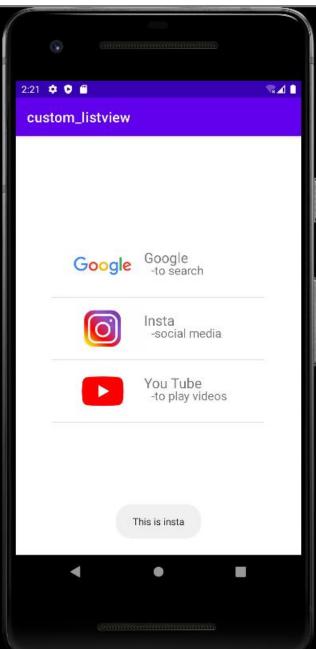
```
package com.example.custom listview;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ListView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
   ListView list;
   String[] maintitle={
   String[] subtitle={
    Integer[] imgid={
            R.drawable.google, R.drawable.insta, R.drawable.youtube
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       SocialAdapter adp=new SocialAdapter(this, maintitle, subtitle, imgid);
        list=(ListView) findViewById(R.id.list1);
        list.setAdapter(adp);
        list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long
                if(i==0)
                    Toast.makeText(getApplicationContext(),"This is
google",Toast.LENGTH LONG).show();
                else if(i==1)
                    Toast.makeText(getApplicationContext(),"This is
insta", Toast. LENGTH LONG) . show();
```

### SocialAdapter.java

```
package com.example.custom listview;
import android.app.Activity;
import android.text.Layout;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.ImageView;
import android.widget.TextView;
import org.w3c.dom.Text;
public class SocialAdapter extends ArrayAdapter<String> {
    Activity context;
    String[] maintitle;
    String[] subtitle;
    Integer[] imgid;
    public SocialAdapter (Activity context, String[] maintitle, String[] subtitle,
Integer[] imgid)
        super(context,R.layout.activity mylist,maintitle);
        this.context=context;
        this.maintitle=maintitle;
        this.subtitle=subtitle;
        this.imgid=imgid;
    public View getView(int position, View v, ViewGroup parent)
row=context.getLayoutInflater().inflate(R.layout.activity mylist,null,true);
        TextView title text=(TextView) row.findViewById(R.id.title1);
        ImageView img=(ImageView) row.findViewById(R.id.icon);
        TextView sub title=(TextView) row.findViewById(R.id.title2);
        title text.setText(maintitle[position]);
        img.setImageResource(imgid[position]);
        sub title.setText(subtitle[position]);
        return row;
```







## **ALERT DIALOG**

#### **Activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
    <TextView
        android:id="@+id/textView"
        android:layout width="311dp"
        android:layout_height="94dp"
        android:text="Click the button to get alert msg"
        android:textSize="20sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.63"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.153" />
        android:id="@+id/button"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Button"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.526"
        app:layout_constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.431" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.alertdialog;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.view.View;
import android.widget.Button;

import java.util.Locale;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

    Button b1=(Button) findViewById(R.id.button);
```

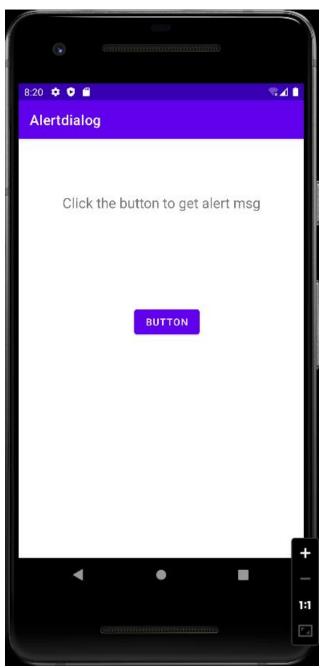
```
AlertDialog.Builder b=new AlertDialog.Builder(this);
b.setIcon(R.drawable.pic);
b.setTitle("This is the Alert Box");
b.setMessage("Are you sure you want to go to next activity ?.");
b.setPositiveButton("OK", new DialogInterface.OnClickListener() {
    public void onClick(DialogInterface dialogInterface, int i) {
        Intent in=new Intent(getApplicationContext(), second activity.class);
        startActivity(in);
        finish();
b.setNegativeButton("Cancel", new DialogInterface.OnClickListener() {
    @Override
    public void onClick(DialogInterface dialogInterface, int i) {
        dialogInterface.dismiss();
});
b1.setOnClickListener(new View.OnClickListener() {
    public void onClick(View view) {
        AlertDialog alt=b.create();
        alt.show();
});
```

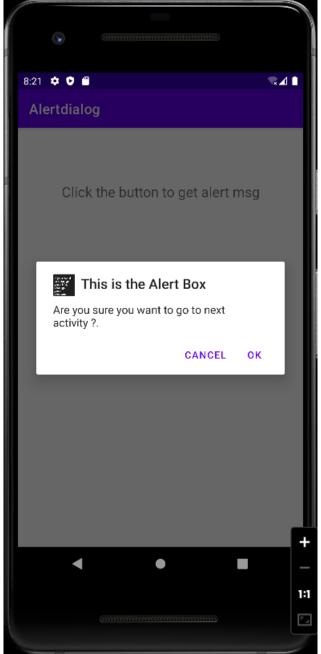
#### activity\_second.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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=".second activity">
    <TextView
        android:id="@+id/textView2"
        android:layout width="261dp"
        android:layout height="101dp"
        android:text="This is second activity"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal bias="0.467"
        app:layout_constraintStart toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
 /androidx.constraintlayout.widget.ConstraintLayout>
```

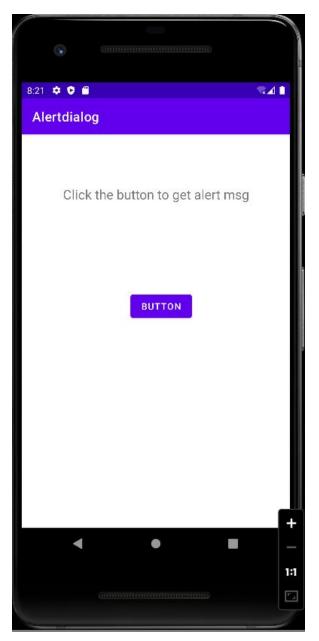
### Second\_activity.java

```
package com.example.alertdialog;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class second_activity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
    }
}
```





## Clicking cancel:



## Clicking ok:



## **CUSTOM ALERT DIALOG**

#### **Activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
    <TextView
        android:id="@+id/textView"
        android:layout width="285dp"
        android:layout_height="51dp"
        android:text="Custom Dialog"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.3" />
        android:id="@+id/button"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Button"
        android:onClick="disp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.465" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.customdialog;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {

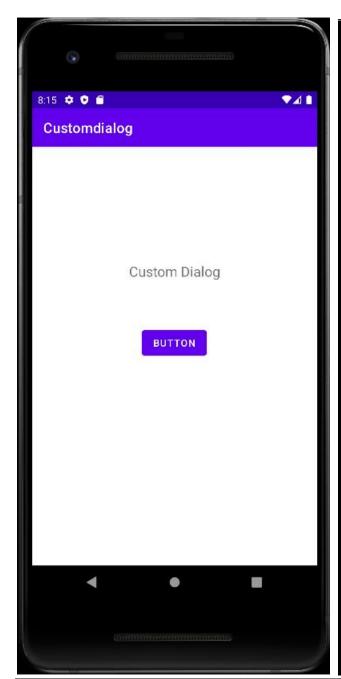
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

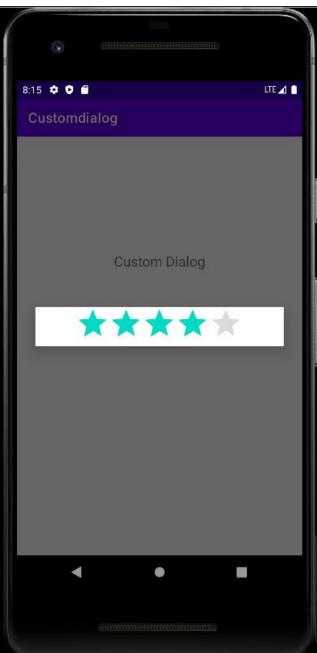
    Button bl=(Button)findViewById(R.id.button);
        bl.setOnClickListener(new View.OnClickListener() {
```

```
@Override
    public void onClick(View view) {
        AlertDialog.Builder build=new AlertDialog.Builder(MainActivity.this);
        ViewGroup vg=findViewById(android.R.id.content);
        View v1=
LayoutInflater.from(view.getContext()).inflate(R.layout.activity_rating,vg,false);
        build.setView(v1);
        AlertDialog alt=build.create();
        alt.show();
    }
});
```

#### activity\_rating.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".rating">
    <RatingBar
        android:id="@+id/ratingBar"
        android:layout width="wrap content"
        android:layout height="wrap content"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.497"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent" />
 (/androidx.constraintlayout.widget.ConstraintLayout>
```





# EXPLICIT INTENT USING BUNDLE (SUM OF TWO NUMBERS; RESULT IN SECOND ACTIVITY)

#### Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
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"
                   height="match parent"
    android:layout_height="match_p
tools:context=".MainActivity">
    <EditText
        android:id="@+id/n1"
        android:layout_width="wrap_content"
        android:layout_height="wrap content"
        android:ems="10"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.925"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.307" />
    <EditText
        android:id="@+id/n2"
        android:layout width="wrap content"
        android: layout height = "wrap content"
        android:ems="10"
        android:inputType="textPersonName"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.92"
        app:layout_constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.415" />
        android:id="@+id/button"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="sum"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.56" />
    <TextView
        android:id="@+id/textView"
        android:layout width="111dp"
        android:layout height="38dp"
        android:text="Number 1"
        android:textAlignment="center"
        android:textSize="18dp"
        android:textStyle="bold"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
```

```
app:layout constraintHorizontal bias="0.09"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.307" />
   <TextView
       android:id="@+id/textView2"
       android:layout width="110dp"
       android:layout height="40dp"
       android:text="Number 2"
       android:textAlignment="center"
       android:textSize="18dp"
       android:textStyle="bold"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout_constraintHorizontal bias="0.093"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout_constraintVertical bias="0.412" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.intent using bundle;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        Button b1=(Button)findViewById(R.id.button);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                 Intent i=new Intent(MainActivity.this, second activity.class);
                 EditText a=(EditText) findViewById(R.id.n1);
EditText b=(EditText) findViewById(R.id.n2);
                 int x=Integer.parseInt(a.getText().toString());
                 int y=Integer.parseInt(b.getText().toString());
                 Bundle bun=new Bundle();
                 bun.putInt("num1",x);
                 bun.putInt("num2",y);
                 i.putExtras(bun);
                 startActivity(i);
```

#### activity\_second.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".second activity">
        android:id="@+id/result"
        android:layout_width="273dp"
        android:layout_height="72dp"
        android:text="TextView"
        android:textAlignment="textStart"
        android:textSize="18dp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

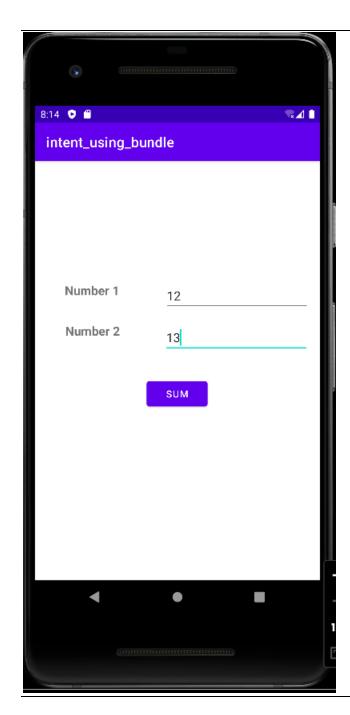
#### Second activity.java

```
package com.example.intent_using_bundle;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class second_activity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);

        Bundle bun=getIntent().getExtras();
        int x=bun.getInt("num1");
        int y=bun.getInt("num2");

        int sum=x+y;

        TextView r=(TextView) findViewById(R.id.result);
        r.setText("The sum of "+x+" and "+y+" is "+String.valueOf(sum));
    }
}
```





# SUM OF TWO NUMBERS (USING EXPLICIT INTENT; WITHOUT BUNDLE)

# (RESULT IN NEW ACTIVITY)

#### Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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:id="@+id/n1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal bias="0.925"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.307" />
    <EditText
        android:id="@+id/n2"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:ems="1\overline{0}"
        android:inputType="textPersonName"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.92"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.415" />
        android:id="@+id/button"
        android:layout width="wrap content"
        android: layout height = "wrap content"
        android:text="sum"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.498"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.56" />
    <TextView
        android:id="@+id/textView"
        android:layout width="111dp"
        android:layout_height="38dp"
android:text="Number 1"
        android:textAlignment="center"
```

```
android:textSize="18dp
       android:textStyle="bold"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintHorizontal bias="0.09"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.307" />
   <TextView
       android:id="@+id/textView2"
       android:layout width="110dp"
       android:layout height="40dp"
       android:text="Number 2"
       android:textAlignment="center"
       android:textSize="18dp"
       android:textStyle="bold"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintHorizontal bias="0.093"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout_constraintVertical bias="0.412" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

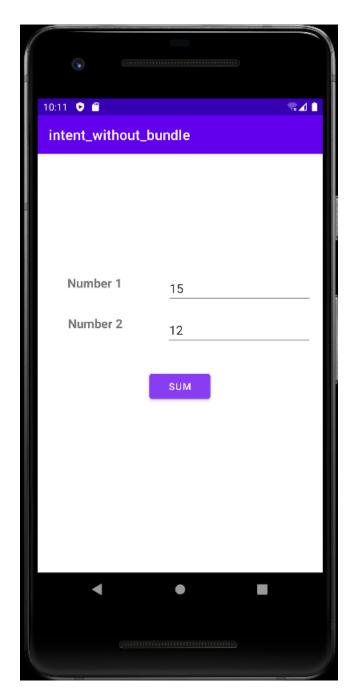
```
package com.example.intent without bundle;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        Button b1=(Button)findViewById(R.id.button);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                 EditText e1=(EditText) findViewById(R.id.n1);
EditText e2=(EditText) findViewById(R.id.n2);
                 Intent i=new Intent(MainActivity.this, second activity.class);
                 String x=e1.getText().toString();
                 String y=e2.getText().toString();
                 i.putExtra("num1",x);
                 i.putExtra("num2",y);
                startActivity(i);
```

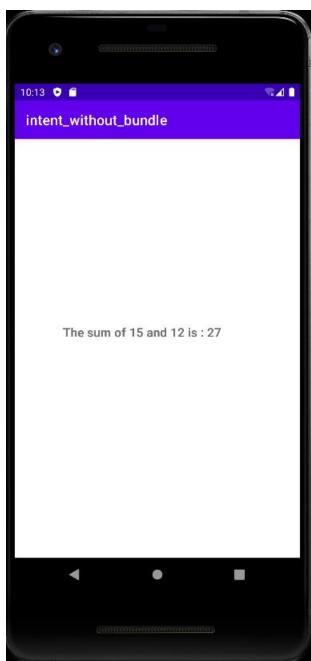
#### activity\_second.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout width="match parent"
    android:layout_height="match_parent"
    tools:context=".second activity">
    <TextView
        android:id="@+id/result"
        android:layout_width="273dp"
        android:layout_height="72dp"
        android:text="TextView"
        android:textAlignment="textStart"
        android:textSize="18dp"
        android:textStyle="bold"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

### Second\_activity.java

```
package com.example.intent without bundle;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.TextView;
public class second activity extends AppCompatActivity {
   @Override
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity second);
       Intent ii=getIntent();
       String a=ii.getStringExtra("num1");
       String b=ii.getStringExtra("num2");
       int l=Integer.parseInt(a);
       int m=Integer.parseInt(b);
       int sum=l+m;
       TextView r=(TextView) findViewById(R.id.result);
       r.setText("The sum of "+a+" and "+b+" is : "+String.valueOf(sum));
```





## **IMPLICIT INTENT**

#### **Activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
    <Button
        android:id="@+id/button"
        android:layout width="377dp"
        android:layout height="61dp"
        android:text="Open Google"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.231" />
        android:id="@+id/button2"
        android:layout width="377dp"
        android:layout height="61dp"
        android:text="Dial : 9361317280"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.529"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.355" />
    <Button
        android:layout width="377dp"
        android:layout height="61dp"
        android:text="Location To Taj Mahal"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app: layout_
                   constraintHorizontal bias="0.47"
        app: layout_
                   _constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical bias="0.486" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.implicit_intent;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import java.util.Locale;
```

```
oublic class MainActivity extends AppCompatActivity {
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        Button b1=(Button)findViewById(R.id.button);
        Button b2=(Button) findViewById(R.id.button2);
        Button b3=(Button)findViewById(R.id.button3);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Uri url= Uri.parse("https://www.google.com");
                Intent it=new Intent(Intent.ACTION VIEW,url);
                startActivity(it);
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
                Uri ph=Uri.parse("tel:9361317280");
                Intent it=new Intent(Intent.ACTION DIAL,ph);
                startActivity(it);
        });
        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String
uri=String.format(Locale.ENGLISH,"https://maps.google.com/maps?q=loc:%f,%f",27.173891,7
8.042068);
                Uri loc=Uri.parse(uri);
                Intent it=new Intent(Intent.ACTION VIEW, loc);
                startActivity(it);
        });
```

#### AndroidManifest.xml

# OPEN CAMERA, TAKE PICTURE AND SET THE IMAGE IN IMAGEVIEW

#### Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout width="match parent"
                   height="match parent"
    android: layout
    tools:context=".MainActivity">
        android: id="@+id/button"
        android:layout_width="253dp"
        android:layout_height="58dp"
        android:text="Open Camera"
        android:onClick="getimage"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.187" />
    <ImageView</pre>
        android:id="@+id/imageView"
        android:layout width="262dp"
        android:layout height="284dp"
        app:layout_constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout_constraintVertical bias="0.499"
        tools:srcCompat="@tools:sample/avatars" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.image_capture;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.graphics.Bitmap;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.view.View;
import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

```
public void getimage(View v)
{
    Intent in=new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
    startActivityForResult(in,100);
}

@Override
    protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent
data) {
        super.onActivityResult(requestCode, resultCode, data);

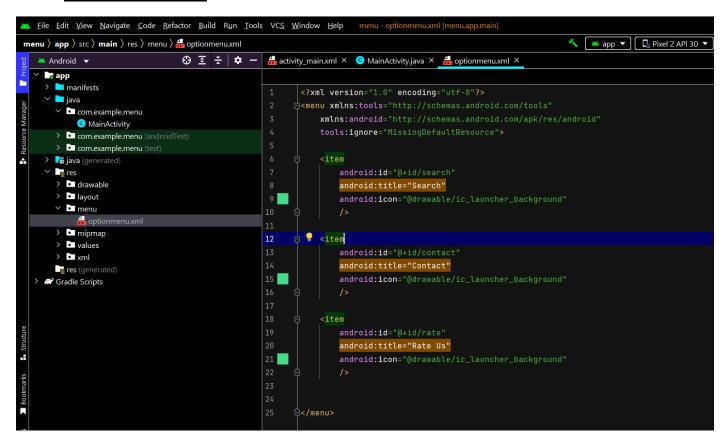
        ImageView img=(ImageView) findViewById(R.id.imageView);
        Bitmap imgl=(Bitmap) data.getExtras().get("data");
        img.setImageBitmap(img1);
    }
}
```

## **MENUS**

#### Three types of menus

- 1. Options menu (3 dots)
- 2. Context Menu (long press)
- 3. Popup menu (on click)

## 1. Options Menu

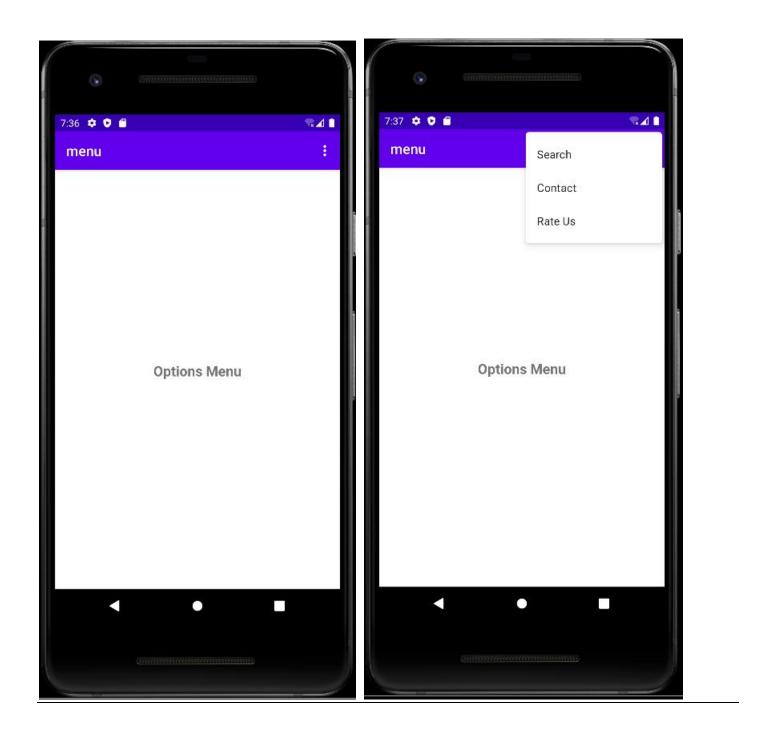


#### Activity main.xml

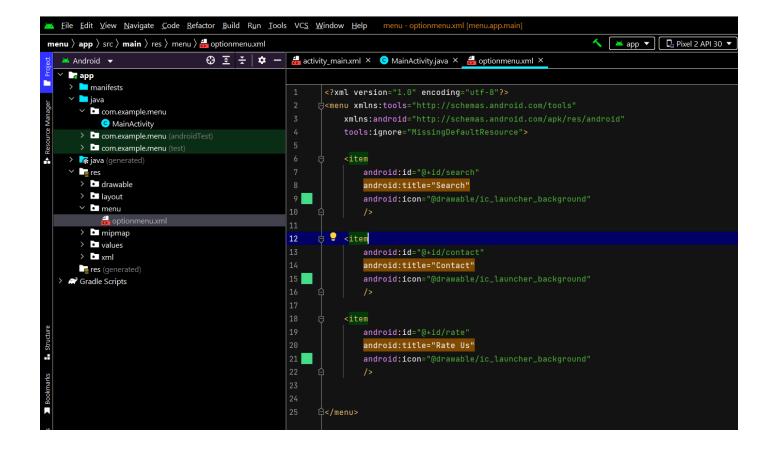
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android: layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity">
    <TextView
        android:layout width="260dp"
        android:layout_height="53dp"
        android:text="Options Menu"
        android:textAlignment="center"
        android:textStyle="bold"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
```

```
app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.menu;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
   @Override
   public boolean onCreateOptionsMenu(Menu menu) {
         super.onCreateOptionsMenu(menu);
         getMenuInflater().inflate(R.menu.optionmenu,menu);
   @Override
   public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        super.onOptionsItemSelected(item);
        switch (item.getItemId())
            case R.id.contact:
                Toast.makeText(getApplicationContext(), "Contact
Page", Toast.LENGTH LONG) .show();
            case R.id.search:
                Toast.makeText(getApplicationContext(), "Search
Here", Toast.LENGTH LONG) .show();
            case R.id.rate:
                Toast.makeText(getApplicationContext(),"Rate
us",Toast.LENGTH_LONG).show();
```



# 2. Context Menu

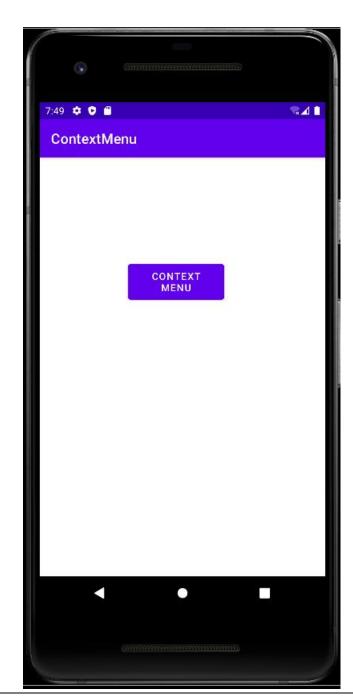


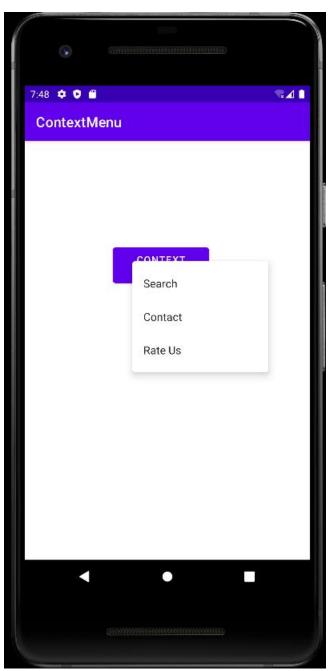
#### Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
    <Button
        android:id="@+id/button"
        android:layout_width="139dp"
        android:layout_height="63dp"
        android:text="Context Menu"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal bias="0.466"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop toTopOf="parent"
        app:layout_constraintVertical_bias="0.273" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.contextmenu;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.ContextMenu;
```

```
.mport android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        Button b1=(Button)findViewById(R.id.button);
        registerForContextMenu(b1);
    public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenu.ContextMenuInfo menuInfo) {
        super.onCreateContextMenu(menu, v, menuInfo);
        getMenuInflater().inflate(R.menu.contextmenu,menu);
    @Override
    public boolean onContextItemSelected(@NonNull MenuItem item) {
        super.onContextItemSelected(item);
        switch (item.getItemId())
            case R.id.contact:
                Toast.makeText(getApplicationContext(), "Contact
Page", Toast.LENGTH_LONG) .show();
            case R.id.search:
                Toast.makeText(getApplicationContext(), "Search
Here", Toast. LENGTH LONG) .show();
               break;
            case R.id.rate:
                Toast.makeText(getApplicationContext(),"Rate
us",Toast.LENGTH_LONG).show();
```





## 3. PopUp Menu

```
<u>File Edit View Navigate Code Refactor Build Run Tools VCS Window Help</u> menu-optionmenu.xml [menu.app.mai
                                                                                                           menu ⟩ app ⟩ src ⟩ main ⟩ res ⟩ menu ⟩ 🚜 optionmenu.xml

▲ Android ▼

                               🕝 app
     manifests
                                                      <?xml version="1.0" encoding="utf-8"?>
                                                     |
⊟<menu xmlns:tools="http://schemas.android.com/tools"
        com.example.menu
                                                          xmlns:android="http://schemas.android.com/apk/res/android"
          MainActivity
                                                          tools:ignore="MissingDefaultResource">
      > com.example.menu (androidTest)
      > com.example.menu (test)
     😽 java (generated)

✓ 
☐ res

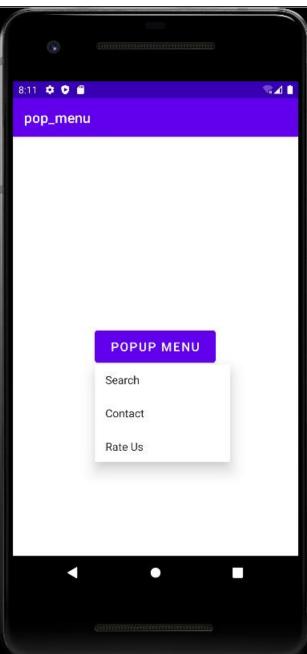
      > drawable
                                                              android:title="Search"
      > 🗖 layout
                                               9
                                                             android:icon="@drawable/ic_launcher_background"
      ✓ Imenu
        • miomao
                                                       ♀ <item
                                               12
      > • values
      res (generated)
                                                             android:icon="@drawable/ic_launcher_background"
                                               15
  > Gradle Scripts
                                                          <item
                                                             android:id="@+id/rate"
                                                              android:title="Rate Us"
                                                             android:icon="@drawable/ic_launcher_background"
                                               21
                                                     Ġ</menu>
```

#### Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity">
        android:id="@+id/button"
        android:layout width="174dp"
        android:layout height="58dp"
        android:text="Popup menu"
        android:textSize="18sp"
        android:onClick="popup"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout constraintTop toTopOf="parent" />
 /androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.pop menu;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.PopupMenu;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
    public void popup(View v)
        Button b1=(Button)findViewById(R.id.button);
        PopupMenu popmenu=new PopupMenu(this,b1);
        popmenu.getMenuInflater().inflate(R.menu.popupmenu,popmenu.getMenu());
        popmenu.setOnMenuItemClickListener(new PopupMenu.OnMenuItemClickListener() {
            public boolean onMenuItemClick(MenuItem menuItem) {
                switch (menuItem.getItemId())
                    case R.id.contact:
                        Toast.makeText(getApplicationContext(), "Contact
Page", Toast. LENGTH LONG) . show();
                    case R.id.search:
                        Toast.makeText(getApplicationContext(), "Search
Here", Toast. LENGTH LONG) . show();
                    case R.id.rate:
                        Toast.makeText(getApplicationContext(),"Rate
us",Toast.LENGTH LONG).show();
        popmenu.show();
```





## FRAGMENT WITH LISTVIEW

#### **Activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
   <ListView
       android:id="@+id/list"
       android:layout width="414dp"
       android:layout height="144dp"
       android:entries="@array/listelem"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintHorizontal bias="0.2"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout_constraintVertical bias="0.0" />
   <FrameLayout</pre>
       android:layout width="409dp"
       android:layout height="585dp"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout_constraintVertical bias="1.0">
   </FrameLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

#### Strings.xml

```
package com.example.myfragment;
import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentTransaction;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.FrameLayout;
import android.widget.ListView;
import java.util.List;
public class MainActivity extends AppCompatActivity {
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        String[] arr={"India", "China", "Japan"};
        ArrayAdapter<String> adp=new ArrayAdapter<>(getApplicationContext(),
android.R.layout.simple list item 1,arr);
        ListView list=(ListView) findViewById(R.id.list);
        FrameLayout fl=(FrameLayout) findViewById(R.id.fl);
        list.setAdapter(adp);
        list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long
1) {
                String str=(String)list.getItemAtPosition(i);
                switch(str)
                        FragmentManager fm1=getSupportFragmentManager();
                        FragmentTransaction ft1=fm1.beginTransaction();
                        ft1.replace(R.id.fl,new IndiaFragment());
                        ft1.commit();
                        FragmentManager fm2=getSupportFragmentManager();
                        FragmentTransaction ft2=fm2.beginTransaction();
                        ft2.replace(R.id.fl,new ChinaFragment());
                        ft2.commit();
                        FragmentManager fm3=getSupportFragmentManager();
                        FragmentTransaction ft3=fm3.beginTransaction();
                        ft3.replace(R.id.fl,new JapanFragment());
                        ft3.commit();
```

```
}
}
}
```

#### fragment\_india.xml

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout 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=".IndiaFragment">
    <!-- TODO: Update blank fragment layout -->
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="Capital of India is New Delhi"
        android:textAlignment="center"
        android:textSize="24sp" />
</FrameLayout>
```

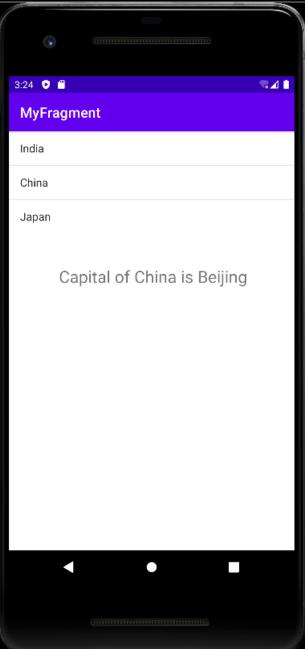
#### IndiaFragment.java

```
package com.example.myfragment;
import android.os.Bundle;
import androidx.fragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
 * A simple {@link Fragment} subclass.
 * Use the {@link IndiaFragment#newInstance} factory method to
public class IndiaFragment extends Fragment {
    // TODO: Rename parameter arguments, choose names that match
    // the fragment initialization parameters, e.g. ARG_ITEM_NUMBER
private static final String ARG_PARAM1 = "param1";
private static final String ARG_PARAM2 = "param2";
    private String mParam1;
    private String mParam2;
    public IndiaFragment() {
         // Required empty public constructor
      * @param param1 Parameter 1.
      * @param param2 Parameter 2.
```

```
@return A new instance of fragment IndiaFragment.
// TODO: Rename and change types and number of parameters
public static IndiaFragment newInstance(String param1, String param2) {
    IndiaFragment fragment = new IndiaFragment();
   Bundle args = new Bundle();
   args.putString(ARG PARAM1, param1);
   args.putString(ARG PARAM2, param2);
   fragment.setArguments(args);
    return fragment;
@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    if (getArguments() != null) {
       mParam1 = getArguments().getString(ARG PARAM1);
       mParam2 = getArguments().getString(ARG_PARAM2);
public View onCreateView(LayoutInflater inflater, ViewGroup container,
                        Bundle savedInstanceState) {
    // Inflate the layout for this fragment
    return inflater.inflate(R.layout.fragment india, container, false);
```

Similarly create fragments for china and Japan.





# **TABLAYOUT**

### **Activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
    <com.google.android.material.tabs.TabLayout</pre>
        android:id="@+id/tab"
        android:layout width="match parent"
        android:layout height="100dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.0"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.0"
        tools:ignore="MissingConstraints" />
    <androidx.viewpager.widget.ViewPager</pre>
        android:id="@+id/viewPager2"
        android:layout width="411dp"
        android:layout height="631dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.0"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="1.0" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

#### MainActivity.java

```
package com.example.tablayout_view;
import androidx.appcompat.app.AppCompatActivity;
import androidx.viewpager.widget.ViewPager;
import android.os.Bundle;
import com.google.android.material.tabs.TabLayout;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        TabLayout tab=(TabLayout) findViewById(R.id.tab);
        ViewPager vp=(ViewPager) findViewById(R.id.viewPager2);
        tab.addTab(tab.newTab().setText("Chats"));
        tab.addTab(tab.newTab().setText("Status"));
        tab.addTab(tab.newTab().setText("Calls"));
```

```
final WhatsappAdapter adp=new
WhatsappAdapter(this,getSupportFragmentManager(),tab.getTabCount());

vp.setAdapter(adp);

vp.addOnPageChangeListener(new TabLayout.TabLayoutOnPageChangeListener(tab));

tab.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) {
     }

     @Override
    public void onTabReselected(TabLayout.Tab tab) {
     }
}
}
```

### WhatsappAdapter.java

```
package com.example.tablayout view;
import android.content.Context;
import android.view.View;
import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentPagerAdapter;
import androidx.viewpager.widget.PagerAdapter;
public class WhatsappAdapter extends FragmentPagerAdapter {
    Context context;
    public WhatsappAdapter (MainActivity mainActivity, FragmentManager
supportFragmentManager, int tabCount) {
        super(supportFragmentManager);
        this.context=mainActivity;
        this.count=tabCount;
    @Override
    public int getCount() {
    public Fragment getItem(int position) {
        switch (position)
            case 0:
                ChatFragment chat=new ChatFragment();
```

```
return chat;

case 1:
    StatusFragment status=new StatusFragment();
    return status;

case 2:
    CallFragment call=new CallFragment();
    return call;

default:
    return null;
}
}
```

### **CallFragment.java**

```
package com.example.tablayout view;
import android.os.Bundle;
import androidx.fragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
  A simple {@link Fragment} subclass.
  Use the {@link CallFragment#newInstance} factory method to
public class CallFragment extends Fragment {
   // the fragment initialization parameters, e.g. ARG_ITEM_NUMBER
   private static final String ARG_PARAM1 = "param1";
   private static final String ARG PARAM2 = "param2";
   // TODO: Rename and change types of parameters
   private String mParam1;
   private String mParam2;
   public CallFragment() {
       // Required empty public constructor
    * @param param1 Parameter 1.
    * @param param2 Parameter 2.
    * @return A new instance of fragment CallFragment.
   public static CallFragment newInstance(String param1, String param2) {
       CallFragment fragment = new CallFragment();
       Bundle args = new Bundle();
       args.putString(ARG PARAM1, param1);
```

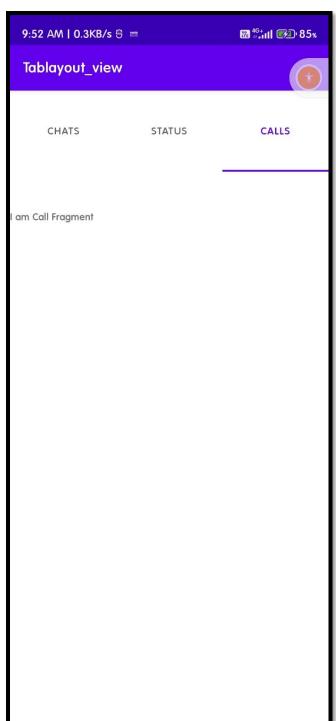
### Fragment\_call.xml

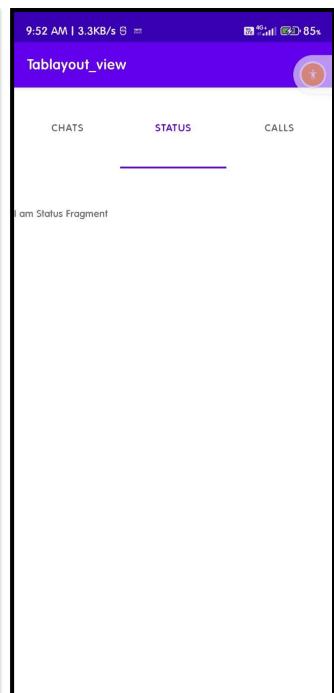
```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".CallFragment">

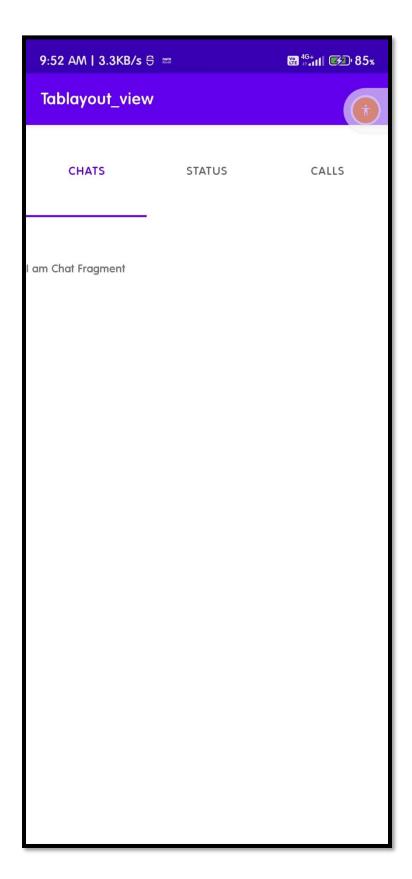
    <!-- TODO: Update blank fragment layout -->
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="I am Call Fragment" />

</FrameLayout>
```

// similarly for status and chat fragments







## **MYSQL**

# (Add, delete, display, display all)

### **Activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</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">
    <TextView
        android:id="@+id/display txt2"
        android:layout width="374dp"
        android:layout height="wrap content"
        android:textAlignment="center"
        android:textSize="18sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.567"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.756" />
   <TextView
        android:id="@+id/display txt"
        android:layout width="374dp"
        android:layout height="wrap content"
        android:textAlignment="center"
        android:textSize="18sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.432"
        app:layout_constraintStart toStartOf="parent"
        app:layout_constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.513" />
        android:id="@+id/add"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:onClick="Add Details
        android:text="Add to Database"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.497"
        app:layout_constraintStart toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.275" />
        android:id="@+id/delete"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="Delete Details"
        android:text="Delete"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.202"
```

```
app:layout constraintStart toStartOf="parent
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.439" />
   android:id="@+id/display"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:onClick="Display Details"
    android:text="Display"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal bias="0.729"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout constraintVertical bias="0.439" />
<TextView
    android:id="@+id/textView"
    android:layout width="143dp"
    android:layout_height="38dp"
    android:text="Regno : "
    android:textAlignment="center"
    android:textSize="18sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
              constraintHorizontal bias="0.018"
    app:layout
              _constraintStart_toStartOf="parent"
    app:layout
    app:layout
              constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.033" />
<TextView
    android:id="@+id/textView3"
    android:layout_width="143dp"
    android:layout_height="38dp"
    android:text="Name : "
    android:textAlignment="center"
    android:textSize="18sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal bias="0.018"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout constraintVertical bias="0.108" />
<TextView
    android:id="@+id/textView4"
    android:layout width="143dp"
    android:layout_height="38dp"
    android:text="Department : "
    android:textAlignment="center"
    android:textSize="18sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.018"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
   app:layout constraintVertical bias="0.189" />
<TextView
   android:id="@+id/textView5"
   android:layout width="189dp"
   android:layout height="51dp"
    android:text="Enter Regno \n To Delete or Display"
    android:textAlignment="center"
```

```
android:textSize="18sp
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.022"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout_constraintVertical bias="0.366" />
<EditText
   android:id="@+id/regno"
   android:layout width="wrap content"
    android:layout height="wrap content"
    android:ems="10"
    android:inputType="textPersonName"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintHorizontal bias="0.83"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout_constraintVertical bias="0.023" />
<EditText
    android:id="@+id/name"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:ems="10"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintHorizontal bias="0.83"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout constraintVertical bias="0.109" />
<EditText
   android:id="@+id/dep"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    app:layout_constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal bias="0.83"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop toTopOf="parent"
    app:layout_constraintVertical bias="0.19" />
    android:id="@+id/regno2"
    android:layout_width="171dp"
    android:layout_height="48dp"
    android:ems="10"
    android:inputType="textPersonName"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal bias="0.912"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.364" />
<Button
   android:id="@+id/display all"
    android:layout width="209dp"
    android:layout height="56dp"
    android:onClick="Display all"
```

```
android:text="Display All Data"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.455"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.976" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

## MainActivity.java

```
package com.example.mysql;
import androidx.appcompat.app.AppCompatActivity;
import android.database.Cursor;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
   EditText regno;
   EditText name;
   EditText dep;
   EditText regno2;
   Button add, delete, display;
   sqlhelper sqlhelper;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
       regno=(EditText) findViewById(R.id.regno);
       name=(EditText) findViewById(R.id.name);
        dep=(EditText) findViewById(R.id.dep);
       regno2=(EditText) findViewById(R.id.regno2);
       add=(Button) findViewById(R.id.add);
        delete=(Button) findViewById(R.id.delete);
       display=(Button) findViewById(R.id.display);
        sqlhelper=new sqlhelper(MainActivity.this);
   public void Add Details(View v)
        int regno a=Integer.parseInt(regno.getText().toString());
        String name a=name.getText().toString();
        String dep a=dep.getText().toString();
        sqlhelper.add details(regno a, name a, dep a);
        Toast.makeText(getApplicationContext(),"Added
Sucessfully",Toast.LENGTH_SHORT).show();
   public void Display Details(View v)
        int regno a=Integer.parseInt(regno2.getText().toString());
```

```
Cursor cursor=sqlhelper.get student(regno a);
       TextView disp txt=(TextView) findViewById(R.id.display txt);
       StringBuilder flag=new StringBuilder();
       while(cursor.moveToNext())
            flag.append("Regno : ");
           flag.append(cursor.getString(0));
           flag.append("\nName : ");
           flag.append(cursor.getString(1));
           flag.append("\nDepartment : ");
           flag.append(cursor.getString(2));
       disp txt.setText(flag);
       TextView disp txt1=(TextView) findViewById(R.id.display txt2);
       disp txt1.setText("");
   public void Display all(View v) {
       Cursor cursor=sqlhelper.get all details();
       StringBuilder flag1=new StringBuilder();
       cursor.moveToFirst();
       if((cursor!=null) && (cursor.getCount()>0)){
               flag1.append("Regno : ");
               flag1.append(cursor.getString(0));
               flag1.append("\nName : ");
               flag1.append(cursor.getString(1));
               flag1.append("\nDepartment : ");
               flag1.append(cursor.getString(2));
               flag1.append("\n\n");
          } while (cursor.moveToNext());
       TextView disp txt=(TextView) findViewById(R.id.display txt);
       disp txt.setText("");
       TextView disp txt1=(TextView) findViewById(R.id.display txt2);
       disp txt1.setText(flag1);
   public void Delete Details(View v) {
       int regno a=Integer.parseInt(regno2.getText().toString());
       sqlhelper.delete student(regno a);
       Toast.makeText(getApplicationContext(),"Deleted
Sucessfully", Toast. LENGTH SHORT) .show();
```

### sqlhelper.java

```
package com.example.mysql;
import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
```

```
import android.database.sqlite.SQLiteOpenHelper;
import android.widget.Toast;
import androidx.annotation.Nullable;
public class sqlhelper extends SQLiteOpenHelper {
   Context context;
   public sqlhelper(Context context) {
       super(context, "Student datadase.sqlite", null, 1);
       this.context=context;
   public void onCreate(SQLiteDatabase sqLiteDatabase) {
       String query="CREATE TABLE Student table (regno integer PRIMARY KEY, name
       sqLiteDatabase.execSQL(query);
   @Override
   public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {
       sqLiteDatabase.execSQL("DROP TABLE IF EXISTS Student table");
   public void add details(int regno, String name, String dep)
       SQLiteDatabase db=this.getWritableDatabase();
       String query="INSERT INTO Student table
db.execSQL(query);
       db.close();
   public Cursor get student(int regno)
       SQLiteDatabase db=this.getWritableDatabase();
       Cursor cursor=db.rawQuery("SELECT * FROM Student_table where
regno="+regno+";",null);
       return cursor;
   public void delete_student(int regno){
       SQLiteDatabase db=this.getWritableDatabase();
       String query="DELETE from Student table where regno="+regno+";";
       db.execSQL(query);
   public Cursor get all details() {
       SQLiteDatabase db=this.getWritableDatabase();
       Cursor cursor=db.rawQuery("SELECT * FROM Student table",null);
       return cursor;
```