**Index**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Title** | **Date** | **Sign** |
| 1 | Linear Layout | 09/01/23 |  |
| 2 | Relative Layout | 10/01/23 |  |
| 3 | Calculator App | 17/01/23 |  |
| 4 | Login Form | 24/01/23 |  |
| 5 | Create a Registration Form and Perform explicit Intent and Show data in next Activity. | 31/01/23 |  |
| 6 | Check Box | 07/02/23 |  |
| 7 | Radiobutton And Radiogroup | 20/02/23 |  |
| 8 | Static Broadcast Receiver | 06/03/23 |  |
| 9 | Menu Practical | 13/03/23 |  |
| 10 | SQLite Database | 20/03/23 |  |
| 11 | Media Player Practical | 27/03/23 |  |

**Practical No. 1**

Linear Layout

**Input:**

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout\_width="match\_parent"  
    android:layout\_height="match\_parent"  
    android:paddingLeft="20dp"  
    android:paddingRight="20dp"  
    android:orientation="vertical" >  
    <EditText  
        android:id="@+id/txtTo"  
        android:layout\_width="match\_parent"  
        android:layout\_height="wrap\_content"  
        android:hint="To"/>  
    <EditText  
        android:id="@+id/txtSub"  
        android:layout\_width="match\_parent"  
        android:layout\_height="wrap\_content"  
        android:hint="Subject"/>  
    <EditText  
        android:id="@+id/txtMsg"  
        android:layout\_width="match\_parent"  
        android:layout\_height="0dp"  
        android:hint="Message"/>  
    <Button  
        android:layout\_width="100dp"  
        android:layout\_height="wrap\_content"  
        android:layout\_gravity="right"  
        android:text="Send"/>  
</LinearLayout>

Once we are done with creation of layout, we need to load the XML layout resource from our [activity](https://www.tutlane.com/tutorial/android/android-activity-lifecycle) **onCreate()** callback method, for that open main activity file **MainActivity.java**

**mainActivity.java**

package com.tutlane.linearlayout;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
public class MainActivity extends AppCompatActivity {  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity\_main);  
    }  
}

**Practical No. 2**

Relative Layout

**Input:**

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout\_width="match\_parent"  
    android:layout\_height="match\_parent"  
    android:paddingLeft="10dp"  
    android:paddingRight="10dp">  
    <Button  
        android:id="@+id/btn1"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:layout\_alignParentLeft="true"  
        android:text="Button1" />  
    <Button  
        android:id="@+id/btn2"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:layout\_alignParentRight="true"  
        android:layout\_centerVertical="true"  
        android:text="Button2" />  
    <Button  
        android:id="@+id/btn3"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:layout\_alignParentLeft="true"  
        android:layout\_centerVertical="true"  
        android:text="Button3" />  
  
    <Button  
        android:id="@+id/btn4"  
        android:layout\_width="match\_parent"  
        android:layout\_height="wrap\_content"  
        android:layout\_alignParentBottom="true"  
        android:text="Button4" />  
    <Button  
        android:id="@+id/btn5"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:layout\_alignBottom="@+id/btn2"  
        android:layout\_centerHorizontal="true"  
        android:text="Button5" />  
    <Button  
        android:id="@+id/btn6"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:layout\_above="@+id/btn4"  
        android:layout\_centerHorizontal="true"  
        android:text="Button6" />  
    <Button  
        android:id="@+id/btn7"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:layout\_toEndOf="@+id/btn1"  
        android:layout\_toRightOf="@+id/btn1"  
        android:layout\_alignParentRight="true"  
        android:text="Button7" />  
</RelativeLayout>

**mainActivity.java**

package com.tutlane.linearlayout;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
  
public class MainActivity extends AppCompatActivity {  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity\_main);  
    }  
}

**Practical No. 3**

Calculator App

**Input:**

public class MainActivity extends AppCompatActivity {

private EditText opr1;

private EditText opr2;

private Button btnadd;

private Button btnsub;

private Button btnmul;

private Button btndiv;

private Button btnclr;

private TextView txtresult;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

opr1 = (EditText) findViewById(R.id.editOp1);

opr2 = (EditText) findViewById(R.id.editOp2);

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

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

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

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

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

txtresult= (TextView) findViewById(R.id.result);

**// Addition**

btnadd.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if((opr1.getText().length()>0) && (opr2.getText().length()>0))

{

double oper1 = Double.parseDouble(opr1.getText().toString());

double oper2 = Double.parseDouble(opr2.getText().toString());

double result = oper1 + oper2;

txtresult.setText(Double.toString(result));

}

else{

Toast toast= Toast.makeText(MainActivity.this,"Enter The Required Numbers",Toast.LENGTH\_LONG);

toast.show();

}

}

});

**//Subtraction**

btnsub.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if((opr1.getText().length()>0) && (opr2.getText().length()>0))

{

double oper1 = Double.parseDouble(opr1.getText().toString());

double oper2 = Double.parseDouble(opr2.getText().toString());

double result = oper1 - oper2;

txtresult.setText(Double.toString(result));

}

else{

Toast toast= Toast.makeText(MainActivity.this,"Enter The Required Numbers",Toast.LENGTH\_LONG);

toast.show();

}

}

});

**// Multiplication**

btnmul.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if((opr1.getText().length()>0) && (opr2.getText().length()>0))

{

double oper1 = Double.parseDouble(opr1.getText().toString());

double oper2 = Double.parseDouble(opr2.getText().toString());

double result = oper1 \* oper2;

txtresult.setText(Double.toString(result));

}

else{

Toast toast= Toast.makeText(MainActivity.this,"Enter The Required Numbers",Toast.LENGTH\_LONG);

toast.show();

}

}

});

**// Division**

btndiv.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if((opr1.getText().length()>0) && (opr2.getText().length()>0))

{

double oper1 = Double.parseDouble(opr1.getText().toString());

double oper2 = Double.parseDouble(opr2.getText().toString());

double result = oper1 / oper2;

txtresult.setText(Double.toString(result));

}

else{

Toast toast= Toast.makeText(MainActivity.this,"Enter The Required Numbers",Toast.LENGTH\_LONG);

toast.show();

}

}

});

**// Reset Feilds**

btnclr.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

opr1.setText("");

opr2.setText("");

txtresult.setText("0.00");

opr1.requestFocus();

}

});

}

}

**Practical No. 4**

Login Form

**Input:**

public class MainActivity extends Activity {

Button b1,b2;

EditText ed1,ed2;

TextView tx1;

int counter = 3;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

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

ed1 = (EditText)findViewById(R.id.editText);

ed2 = (EditText)findViewById(R.id.editText2);

b2 = (Button)findViewById(R.id.button2);

tx1 = (TextView)findViewById(R.id.textView3);

tx1.setVisibility(View.GONE);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if(ed1.getText().toString().equals("admin") &&

ed2.getText().toString().equals("admin")) {

Toast.makeText(getApplicationContext(),

"Redirecting...",Toast.LENGTH\_SHORT).show();

}else{

Toast.makeText(getApplicationContext(), "Wrong

Credentials",Toast.LENGTH\_SHORT).show();

tx1.setVisibility(View.VISIBLE);

tx1.setBackgroundColor(Color.RED);

counter--;

tx1.setText(Integer.toString(counter));

if (counter == 0) {

b1.setEnabled(false);

}

}

}

});

b2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

finish();

}

});

}

}

**Practical No. 5**

Create a Registration Form and Perform explicit Intent and Show data in next Activity.

**Input:**

**Page1 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">

<TextView

android:id="@+id/textView"

android:layout\_width="92dp"

android:layout\_height="47dp"

android:layout\_marginStart="168dp"

android:layout\_marginTop="164dp"

android:text="Admin"

android:textSize="20sp"

android:gravity="center"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<EditText

android:id="@+id/Usernm"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="120dp"

android:layout\_marginTop="244dp"

android:ems="10"

android:hint="Username"

android:inputType="textPersonName"

android:minHeight="48dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<EditText

android:id="@+id/Passwd"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="120dp"

android:layout\_marginTop="312dp"

android:ems="10"

android:hint="Password"

android:inputType="textPassword"

android:minHeight="48dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="168dp"

android:layout\_marginTop="408dp"

android:onClick="Login"

android:text="Login"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="168dp"

android:layout\_marginTop="488dp"

android:onClick="Sign\_in"

android:text="Sign in"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Java files**

package com.example.registeration\_app;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText pw,us;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void Login(View view) {

us=findViewById(R.id.Usernm);

pw=findViewById(R.id.Passwd);

if(pw.getText().toString().equals("admin")&&us.getText().toString().equals("admin"))

{

Toast.makeText(getApplicationContext(),"Valid input",Toast.LENGTH\_LONG).show();

Intent i=new Intent(getApplicationContext(),Register\_page.class);

startActivity(i);

}

else

{

Toast.makeText(getApplicationContext(),"Invalid input",Toast.LENGTH\_LONG).show();

}

}

public void Sign\_in(View view) {

Intent i=new Intent(getApplicationContext(),Register\_page.class);

startActivity(i);

}

}

**Page2 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=".Register\_page">

<TextView

android:id="@+id/textView2"

android:layout\_width="87dp"

android:layout\_height="40dp"

android:layout\_marginStart="36dp"

android:layout\_marginTop="172dp"

android:gravity="center"

android:text="First Name:"

android:textSize="16sp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<EditText

android:id="@+id/Firstnm"

android:layout\_width="165dp"

android:layout\_height="48dp"

android:layout\_marginStart="140dp"

android:layout\_marginTop="172dp"

android:ems="10"

android:inputType="textPersonName"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

tools:ignore="SpeakableTextPresentCheck" />

<TextView

android:id="@+id/textView3"

android:layout\_width="87dp"

android:layout\_height="40dp"

android:layout\_marginStart="36dp"

android:layout\_marginTop="232dp"

android:gravity="center"

android:text="Last Name:"

android:textSize="16sp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<EditText

android:id="@+id/Lastnm"

android:layout\_width="167dp"

android:layout\_height="48dp"

android:layout\_marginStart="136dp"

android:layout\_marginTop="232dp"

android:ems="10"

android:inputType="textPersonName"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

tools:ignore="SpeakableTextPresentCheck" />

<Button

android:id="@+id/button3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="152dp"

android:layout\_marginTop="568dp"

android:onClick="Register"

android:text="Register"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<RadioGroup

android:layout\_width="293dp"

android:layout\_height="57dp"

android:layout\_marginStart="132dp"

android:layout\_marginTop="328dp"

android:orientation="horizontal"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent">

<RadioButton

android:id="@+id/Male"

android:layout\_width="79dp"

android:layout\_height="wrap\_content"

android:text="Male" />

<RadioButton

android:id="@+id/Female"

android:layout\_width="92dp"

android:layout\_height="wrap\_content"

android:text="Female" />

<RadioButton

android:id="@+id/Others"

android:layout\_width="93dp"

android:layout\_height="wrap\_content"

android:text="Others" />

</RadioGroup>

<TextView

android:id="@+id/textView4"

android:layout\_width="82dp"

android:layout\_height="49dp"

android:layout\_marginStart="44dp"

android:layout\_marginTop="328dp"

android:gravity="center"

android:text="Gender"

android:textSize="16sp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<CheckBox

android:id="@+id/Marathi"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="152dp"

android:layout\_marginTop="392dp"

android:text="Marathi"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<CheckBox

android:id="@+id/English"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="152dp"

android:layout\_marginTop="440dp"

android:text="English"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<CheckBox

android:id="@+id/Hindi"

android:layout\_width="75dp"

android:layout\_height="48dp"

android:layout\_marginStart="152dp"

android:layout\_marginTop="488dp"

android:text="Hindi"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/textView5"

android:layout\_width="114dp"

android:layout\_height="42dp"

android:layout\_marginStart="136dp"

android:layout\_marginTop="80dp"

android:text="Registration"

android:textSize="20sp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/textView6"

android:layout\_width="78dp"

android:layout\_height="28dp"

android:layout\_marginStart="56dp"

android:layout\_marginTop="404dp"

android:text="Language"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Java files**

package com.example.registeration\_app;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.CheckBox;

import android.widget.EditText;

import android.widget.RadioButton;

public class Register\_page extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_register\_page);

}

public void Register(View view) {

EditText fnm,lnm;

RadioButton mal,fem,oth;

CheckBox Mar,Eng,Hin;

String gen="";

mal=findViewById(R.id.Male);

fem=findViewById(R.id.Female);

oth=findViewById(R.id.Others);

Mar=findViewById(R.id.Marathi);

Eng=findViewById(R.id.English);

Hin=findViewById(R.id.Hindi);

fnm=findViewById(R.id.Firstnm);

lnm=findViewById(R.id.Lastnm);

Intent ij=new Intent(getApplicationContext(),Final\_page.class);

ij.putExtra("Fnm",fnm.getText().toString());

ij.putExtra("Lnm",lnm.getText().toString());

if (mal.isChecked())

{

gen="Male";

}

else if (fem.isChecked())

{

gen="Female";

}

else if (oth.isChecked())

{

gen="Others";

}

else

{

gen="";

}

ij.putExtra("Gender",gen);

if (Mar.isChecked())

{

ij.putExtra("Lan1","Marathi");

}

else

{ij.putExtra("Lan1","");}

if (Eng.isChecked())

{

ij.putExtra("Lan2","English");

}

else

{ij.putExtra("Lan2","");}

if (Hin.isChecked())

{

ij.putExtra("Lan3","Hindi");

}

else

{ij.putExtra("Lan3","");}

startActivity(ij);

}

}

**Page3 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=".Final\_page">

<TextView

android:id="@+id/textView7"

android:layout\_width="192dp"

android:layout\_height="55dp"

android:layout\_marginStart="108dp"

android:layout\_marginTop="128dp"

android:text="Thank you !!!"

android:textSize="34sp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/textView8"

android:layout\_width="108dp"

android:layout\_height="34dp"

android:layout\_marginStart="156dp"

android:layout\_marginTop="208dp"

android:text="Information"

android:textSize="20sp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/textView9"

android:layout\_width="75dp"

android:layout\_height="31dp"

android:layout\_marginStart="80dp"

android:layout\_marginTop="292dp"

android:gravity="center"

android:text="Name"

android:textSize="20sp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/Regisfnm"

android:layout\_width="90dp"

android:layout\_height="30dp"

android:layout\_marginStart="204dp"

android:layout\_marginTop="292dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/textView11"

android:layout\_width="93dp"

android:layout\_height="32dp"

android:layout\_marginStart="80dp"

android:layout\_marginTop="356dp"

android:gravity="center"

android:text="Gender"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/Regisgeng"

android:layout\_width="64dp"

android:layout\_height="32dp"

android:layout\_marginStart="208dp"

android:layout\_marginTop="356dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/textView13"

android:layout\_width="80dp"

android:layout\_height="32dp"

android:layout\_marginStart="88dp"

android:layout\_marginTop="424dp"

android:text="Language"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/RegisLan1"

android:layout\_width="68dp"

android:layout\_height="29dp"

android:layout\_marginStart="204dp"

android:layout\_marginTop="424dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/RegisLan2"

android:layout\_width="66dp"

android:layout\_height="29dp"

android:layout\_marginStart="204dp"

android:layout\_marginTop="468dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/RegisLan3"

android:layout\_width="66dp"

android:layout\_height="28dp"

android:layout\_marginStart="204dp"

android:layout\_marginTop="512dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Java files**

package com.example.registeration\_app;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.TextView;

public class Final\_page extends AppCompatActivity {

TextView Nm,Geng,Lan1,Sp,Lan2,Lan3;

@Override

protected void onCreate(Bundle savedInstanceState) {

String a;

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_final\_page);

Nm=findViewById(R.id.Regisfnm);

Geng=findViewById(R.id.Regisgeng);

Lan1=findViewById(R.id.RegisLan1);

Lan2=findViewById(R.id.RegisLan2);

Lan3=findViewById(R.id.RegisLan3);

//Sp=findViewById(R.id.RegisLan2);

Bundle inform=getIntent().getExtras();

a=inform.getString("Fnm")+" "+inform.getString("Lnm");

Nm.setText(a);

//Sp.setText(inform.getString("Lnm"));

Geng.setText(inform.getString("Gender"));

Lan1.setText(inform.getString("Lan1"));

Lan2.setText(inform.getString("Lan2"));

Lan3.setText(inform.getString("Lan3"));

}

}

Graphical user interface, diagram, application

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Graphical user interface

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Table

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**Practical No. 6**

Check Box

**Input:**

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:orientation="vertical" android:layout\_width="match\_parent"  
    android:layout\_height="match\_parent">  
    <CheckBox  
        android:id="@+id/chkJava"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:padding="10dp"  
        android:layout\_marginTop="150dp"  
        android:layout\_marginLeft="100dp"  
        android:text="Java"  
        android:onClick="onCheckboxClicked"/>  
    <CheckBox  
        android:id="@+id/chkPython"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:padding="10dp"  
        android:layout\_marginLeft="100dp"  
        android:text="Python"  
        android:onClick="onCheckboxClicked"/>  
    <CheckBox  
        android:id="@+id/chkAndroid"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:padding="10dp"  
        android:layout\_marginLeft="100dp"  
        android:text="Android"  
        android:onClick="onCheckboxClicked"/>  
    <CheckBox  
        android:id="@+id/chkAngular"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:padding="10dp"  
        android:layout\_marginLeft="100dp"  
        android:text="AngularJS"  
        android:onClick="onCheckboxClicked"/>  
    <Button  
        android:id="@+id/getBtn"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:layout\_marginLeft="100dp"  
        android:text="Get Details" />  
</LinearLayout>

**mainActivity.java**

package com.tutlane.checkboxexample;  
import android.support.v7.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 {  
    CheckBox android, java, angular, python;  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity\_main);  
        android = (CheckBox)findViewById(R.id.chkAndroid);  
        angular = (CheckBox)findViewById(R.id.chkAngular);  
        java = (CheckBox)findViewById(R.id.chkJava);  
        python = (CheckBox)findViewById(R.id.chkPython);  
        Button btn = (Button)findViewById(R.id.getBtn);  
        btn.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View v) {  
                String result = "Selected Courses";  
                if(android.isChecked()){  
                result += "\nAndroid";  
                }  
                if(angular.isChecked()){  
                    result += "\nAngularJS";  
                }  
                if(java.isChecked()){  
                    result += "\nJava";  
                }  
                if(python.isChecked()){  
                    result += "\nPython";  
                }  
                Toast.makeText(getApplicationContext(), result, Toast.LENGTH\_SHORT).show();  
            }  
        });  
    }  
    public void onCheckboxClicked(View view) {  
        boolean checked = ((CheckBox) view).isChecked();  
        String str="";  
        // Check which checkbox was clicked  
        switch(view.getId()) {  
            case R.id.chkAndroid:  
                str = checked?"Android Selected":"Android Deselected";  
                break;  
            case R.id.chkAngular:  
                str = checked?"AngularJS Selected":"AngularJS Deselected";  
                break;  
            case R.id.chkJava:  
                str = checked?"Java Selected":"Java Deselected";  
                break;  
            case R.id.chkPython:  
                str = checked?"Python Selected":"Python Deselected";  
                break;  
        }  
        Toast.makeText(getApplicationContext(), str, Toast.LENGTH\_SHORT).show();  
    }  
}

Graphical user interface, application, Teams

Description automatically generatedGraphical user interface, application, Teams

Description automatically generated

**Practical No. 7**

Radiobutton And Radiogroup

**Input:**

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout\_width="match\_parent" android:layout\_height="match\_parent">  
    <TextView  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:layout\_marginTop="150dp"  
        android:layout\_marginLeft="100dp"  
        android:textSize="18dp"  
        android:text="Select Your Course"  
        android:textStyle="bold"  
        android:id="@+id/txtView"/>  
<RadioGroup  
    android:layout\_width="match\_parent"  
    android:layout\_height="wrap\_content"  
    android:orientation="vertical"  
    android:id="@+id/rdGroup"  
    android:layout\_below="@+id/txtView">  
    <RadioButton  
        android:id="@+id/rdbJava"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:padding="10dp"  
        android:layout\_marginLeft="100dp"  
        android:text="Java"  
        android:onClick="onRadioButtonClicked"/>  
    <RadioButton  
        android:id="@+id/rdbPython"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:padding="10dp"  
        android:layout\_marginLeft="100dp"  
        android:text="Python"  
        android:onClick="onRadioButtonClicked"/>  
    <RadioButton  
        android:id="@+id/rdbAndroid"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:padding="10dp"  
        android:layout\_marginLeft="100dp"  
        android:text="Android"  
        android:onClick="onRadioButtonClicked"/>  
    <RadioButton  
        android:id="@+id/rdbAngular"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:padding="10dp"  
        android:layout\_marginLeft="100dp"  
        android:text="AngularJS"  
        android:onClick="onRadioButtonClicked"/>  
</RadioGroup>  
    <Button  
        android:id="@+id/getBtn"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:layout\_marginLeft="100dp"  
        android:layout\_below="@+id/rdGroup"  
        android:text="Get Course" />  
</RelativeLayout>

**mainActivity.java**

package com.tutlane.radiobuttonexample;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.RadioButton;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
    RadioButton android, java, angular, python;  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity\_main);  
        android = (RadioButton)findViewById(R.id.rdbAndroid);  
        angular = (RadioButton)findViewById(R.id.rdbAngular);  
        java = (RadioButton)findViewById(R.id.rdbJava);  
        python = (RadioButton)findViewById(R.id.rdbPython);  
        Button btn = (Button)findViewById(R.id.getBtn);  
        btn.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View v) {  
                String result = "Selected Course: ";  
                result+= (android.isChecked())?"Android":(angular.isChecked())?"AngularJS":(java.isChecked())?"Java":(python.isChecked())?"Python":"";  
                Toast.makeText(getApplicationContext(), result, Toast.LENGTH\_SHORT).show();  
            }  
        });  
    }  
    public void onRadioButtonClicked(View view) {  
        boolean checked = ((RadioButton) view).isChecked();  
        String str="";  
        // Check which radio button was clicked  
        switch(view.getId()) {  
            case R.id.rdbAndroid:  
                if(checked)  
                str = "Android Selected";  
                break;  
            case R.id.rdbAngular:  
                if(checked)  
                str = "AngularJS Selected";  
                break;  
            case R.id.rdbJava:  
                if(checked)  
                str = "Java Selected";  
                break;  
            case R.id.rdbPython:  
                if(checked)  
                str = "Python Selected";  
                break;  
        }  
        Toast.makeText(getApplicationContext(), str, Toast.LENGTH\_SHORT).show();  
    }  
}

Graphical user interface, application, Teams

Description automatically generated

Graphical user interface, application, Teams

Description automatically generated

**Practical No. 8**

Static Broadcast Receiver

**Manifest.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
package="com.example.finaltry">  
<uses-permission android:name="android.permission.RECEIVE\_BOOT\_COMPLETED"></uses-permission>  
<application  
android:allowBackup="true"  
android:icon="@mipmap/ic\_launcher"  
android:label="@string/app\_name"  
android:roundIcon="@mipmap/ic\_launcher\_round"  
android:supportsRtl="true"  
android:theme="@style/AppTheme">  
<activity android:name=".MainActivity">  
<intent-filter>  
<action android:name="android.intent.action.MAIN" />  
  
<category android:name="android.intent.category.LAUNCHER" />  
</intent-filter>  
</activity>  
<receiver android:name=".ExampleBradcastReceiver">  
<intent-filter>  
<action android:name="android.intent.action.BOOT\_COMPLETED"/>  
<action android:name="android.net.conn.CONNECTIVITY\_CHANGED"/>  
</intent-filter>  
</receiver>  
</application>  
</manifest>

**ExampleBroadcastReceiver.java**

package com.example.finaltry;  
import android.content.BroadcastReceiver;  
import android.content.Context;  
import android.content.Intent;  
import android.net.ConnectivityManager;  
import android.widget.Toast;  
public class ExampleBradcastReceiverextends BroadcastReceiver {  
@Override  
public void onReceive(Context context, Intent intent) {  
if(intent.*ACTION\_BOOT\_COMPLETED*.equals(intent.getAction()))  
 {  
Toast.*makeText*(context, "BOOT COMPLETED", Toast.*LENGTH\_LONG*).show();  
 }  
 }  
}

A close-up of a cell phone

Description automatically generated with medium confidence

**Practical No. 9**

Menu Practical

**Activity**

*<?*xml version="1.0" encoding="utf-8"*?>*<android.support.constraint.ConstraintLayoutxmlns: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="wrap\_content"  
android:layout\_height="wrap\_content"  
android:text="Hello World!"  
app:layout\_constraintBottom\_toBottomOf="parent"  
app:layout\_constraintLeft\_toLeftOf="parent"  
app:layout\_constraintRight\_toRightOf="parent"  
app:layout\_constraintTop\_toTopOf="parent" />  
</android.support.constraint.ConstraintLayout>

**Menufile**

*<?*xml version="1.0" encoding="utf-8"*?>*<menu xmlns:app="http://schemas.android.com/apk/res-auto"  
xmlns:android="http://schemas.android.com/apk/res/android">  
<item  
android:id="@+id/i1"  
android:icon="@drawable/ic\_share"  
android:title="share"  
app:showAsAction="ifRoom">  
<menu>  
<item  
android:id="@+id/a"  
android:title="subitem a"  
app:showAsAction="never|ifRoom" />  
<item android:id="@+id/b"  
android:title="subitem b"/>  
</menu>  
</item>  
<item  
android:id="@+id/i2"  
android:icon="@drawable/ic\_attach"  
android:title="attach"  
app:showAsAction="ifRoom" />  
</menu>

**Shape, square

Description automatically generated**

**Mymenu.xml**

To create Menu file

Res -> new -> android resource directory

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

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

xmlns:app="http://schemas.android.com/apk/res-auto">

<item android:id="@+id/copy"

android:icon="@drawable/ic\_copy”

android:title="Copy"/>

<item android:id="@+id/delete"

android:icon="@drawable/ic\_delete"

android:title="delete"/>

<item android:id="@+id/share"

android:icon="@drawable/ic\_share"

android:title="share">

<menu>

<item android:id="@+id/drive"

android:icon="@drawable/ic\_drive"

android:title="drive"/>

</menu>

</item>

<item android:id="@+id/search"

android:icon="@drawable/ic\_search"

app:showAsAction="ifRoom"

android:title="search"/>

</menu>

MainActivity.Java

package com.example.menuapplication;  
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) {  
 getMenuInflater().inflate(R.menu.*mymenu*,menu);  
 return super.onCreateOptionsMenu(menu);  
 }  
 @Override  
 public boolean onOptionsItemSelected(@NonNull MenuItem item) {  
 int id=item.getItemId();  
 if(id==R.id.*copy*)  
 {  
 Toast.*makeText*(getApplicationContext(), "Copy Item Selected", Toast.*LENGTH\_SHORT*).show();  
 }  
 if(id==R.id.*delete*)  
 {  
 Toast.*makeText*(getApplicationContext(), "Delete Item Selected", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 return super.onOptionsItemSelected(item);  
 }  
}

Chart

Description automatically generated with medium confidenceChart

Description automatically generated with medium confidence

Chart

Description automatically generated with medium confidence

**Practical No. 10**

SQLite Database

**Activity\_main.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout 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/editText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:hint="Enter Employee Name:" />  
  
 <EditText  
 android:id="@+id/editText2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/editText"  
 android:layout\_alignEnd="@+id/editText"  
 android:layout\_alignRight="@+id/editText"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentLeft="true"  
 android:hint="Enter Email ID" />  
  
 <EditText  
 android:id="@+id/editText3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/editText2"  
 android:layout\_alignEnd="@+id/editText2"  
 android:layout\_alignRight="@+id/editText2"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentLeft="true"  
 android:hint="Enter Salary" />  
  
 <Button  
 android:id="@+id/btnsave"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="36dp"  
 android:layout\_marginLeft="36dp"  
 android:layout\_marginBottom="280dp"  
 android:onClick="Save"  
 android:text="Save" />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Update"  
 android:onClick="update"  
 android:id="@+id/btnupdate"  
 android:layout\_alignTop="@+id/btnsave"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentEnd="true" />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Delete"  
 android:onClick="Delete"  
 android:id="@+id/btndel"  
 android:layout\_centerVertical="true"  
 android:layout\_centerHorizontal="true" />  
  
 <Button  
 android:id="@+id/btnselect"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignStart="@+id/btndel"  
 android:layout\_alignLeft="@+id/btndel"  
 android:onClick="show"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="-48dp"  
 android:layout\_marginLeft="-48dp"  
 android:layout\_marginBottom="189dp"  
 android:text="show" />  
  
  
</RelativeLayout>

**SQliteDatabase.java**

package com.example.sqldatabase;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

SQLiteDatabase db;

EditText editempname, editempmail, editempsalary;

// Button Add, Delete, Modify, View,search ;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

//Create database,EmployeeDB database name

db = openOrCreateDatabase("EmployeeDB", Context.MODE\_PRIVATE, null);

//create table Employee

db.execSQL("CREATE TABLE IF NOT EXISTS Employee(EmpId INTEGER PRIMARY KEY AUTOINCREMENT,EmpName VARCHAR,EmpMail VARCHAR,EmpSalary VARCHAR);");

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

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

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

}

public void Save(View view) {

db.execSQL("INSERT INTO Employee(EmpName,EmpMail,EmpSalary)VALUES('" + editempname.getText() + "','" + editempmail.getText() + "','" + editempsalary.getText() + "');");

Toast.makeText(getApplicationContext(), "Record Inserted....", Toast.LENGTH\_LONG).show();

}

public void update(View view) {

Cursor c = db.rawQuery("SELECT \* FROM Employee WHERE EmpName='" + editempname.getText() + "'", null);

if (c.moveToFirst()) {

db.execSQL("UPDATE Employee SET EmpName ='" + editempname.getText() + "', EmpMail='" + editempmail.getText() + "',EmpSalary='" + editempsalary.getText() + "' WHERE EmpName ='" + editempname.getText() + "'");

Toast.makeText(this, "Record Updated", Toast.LENGTH\_SHORT).show();

}

}

public void Delete(View view) {

Cursor c = db.rawQuery("SELECT \* FROM Employee WHERE EmpName ='" + editempname.getText() + "'", null);

if (c.moveToFirst()) {

db.execSQL("DELETE FROM Employee WHERE EmpName ='" + editempname.getText() + "'");

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

}

}

public void show (View view){

Cursor c = db.rawQuery("SELECT \* FROM Employee", null);

StringBuffer buffer = new StringBuffer();

while (c.moveToNext()) {

buffer.append("Emp Id" + c.getInt(0) + "\n");

buffer.append("Employee Name: " + c.getString(1) + "\n");

buffer.append("Employee Mail: " + c.getString(2) + "\n");

buffer.append("Employee Salary: " + c.getString(3) + "\n\n");

}

Toast.makeText(getApplicationContext(), buffer.toString(), Toast.LENGTH\_LONG).show();

}

}

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**Practical No. 11**

Media Player Practical

To Add Music file

Res-> new -> folder -> raw resource directory

**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">  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="231dp"  
 android:layout\_height="72dp"  
 android:layout\_marginStart="88dp"  
 android:layout\_marginTop="116dp"  
 android:text="Play"  
 android:onClick="play"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="229dp"  
 android:layout\_height="68dp"  
 android:layout\_marginStart="88dp"  
 android:layout\_marginTop="52dp"  
 android:text="Stop"  
 android:onClick="stop"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button" />  
  
 <Button  
 android:id="@+id/button3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="160dp"  
 android:layout\_marginTop="100dp"  
 android:text="pause"  
 android:onClick="pause"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button2" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**main.java**

package com.example.mediaplayerexample;  
import androidx.appcompat.app.AppCompatActivity;  
import android.media.MediaPlayer;  
import android.os.Bundle;  
import android.view.View;  
public class MainActivity extends AppCompatActivity {  
 MediaPlayer mp;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 mp=MediaPlayer.*create*(this,R.raw.*sample*);  
 }  
 public void play(View view) {  
 mp.start();  
 }  
 public void stop(View view) {  
 mp.stop();  
 }  
 public void pause(View view) {  
 mp.pause();  
 }  
}

Graphical user interface, application, Teams

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