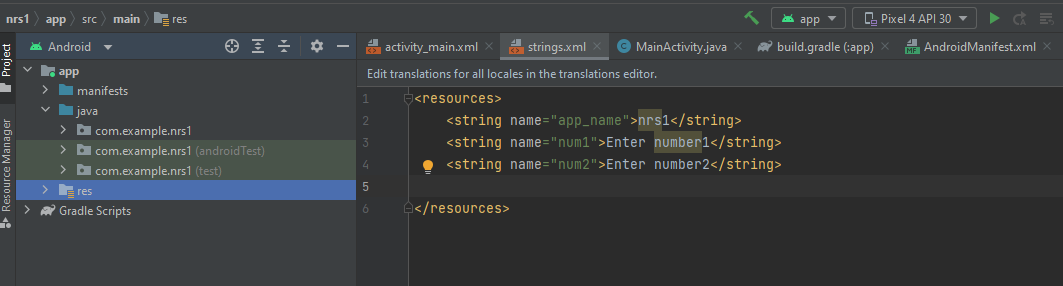


**SUM OF TWO NUMBERS**

**String.xml**



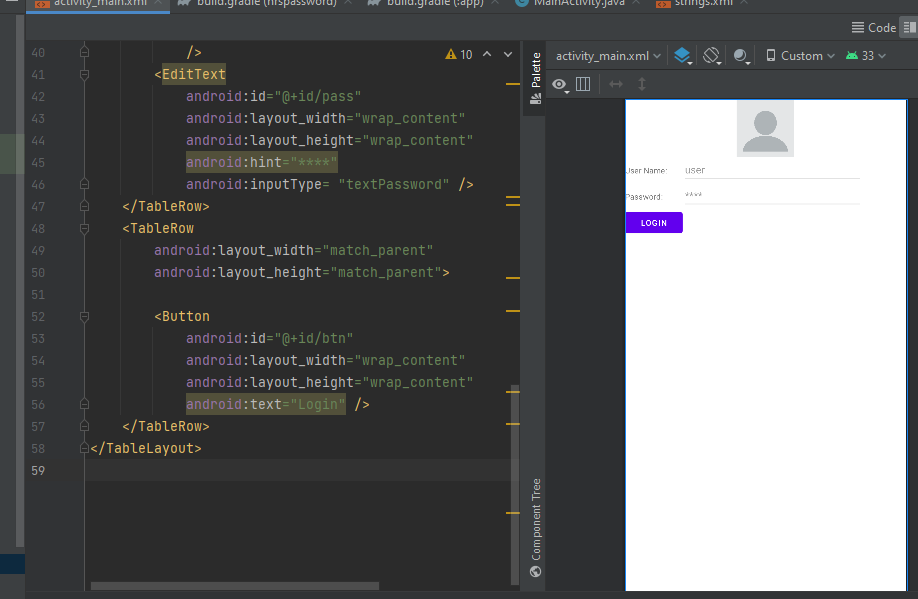
**Activity\_main.xml**

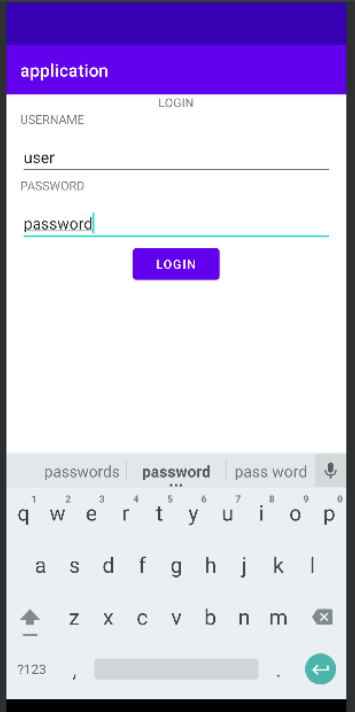
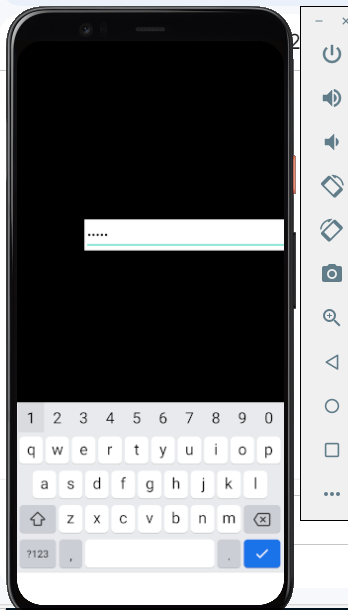
<?xml version="1.0" encoding="utf-8"?>  
<TableLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <TableRow  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/num1" />  
  
 <EditText  
 android:id="@+id/eid1"  
 android:layout\_width="55dp"  
 android:layout\_height="15dp"  
 android:text=" text" />  
  
 </TableRow>  
 <TableRow  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/num2" />  
  
 <EditText  
 android:id="@+id/eid2"  
 android:layout\_width="55dp"  
 android:layout\_height="15dp"  
 android:text=" text" />  
  
 </TableRow>  
 <TableRow  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content">  
 <Button  
 android:id="@+id/b1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Click" />  
 <TextView  
 android:id="@+id/t1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:text="view" />  
  
 </TableRow>  
   
</TableLayout>

**MainActivity.java**

import androidx.appcompat.app.AppCompatActivity;  
  
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 {  
 Button b;  
  
 EditText e1,e2;  
  
 TextView t;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 e1=findViewById(R.id.*eid1*) ;  
 e2=findViewById(R.id.*eid2*);  
 t=findViewById(R.id.*t1*);  
 b=findViewById(R.id.*b1*);  
 b.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String val1=e1.getText().toString();  
 String val2=e1.getText().toString();  
 Integer a = Integer.*parseInt*(val1);  
 Integer c = Integer.*parseInt*(val2);  
 Integer sum = a+c;  
 t.setText("the result is"+sum);  
 t.setText(sum.toString());  
  
 Toast.*makeText*(MainActivity.this,String.*valueOf*(sum), Toast.*LENGTH\_SHORT*).show();  
  
 }  
 });  
 }  
}

**To implement login page with fields username and password**





**To implement SIMPLE CALCULATOR**

**ACTIVITY\_XML**

<?xml version="1.0" encoding="utf-8"?>  
<TableLayout 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"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/aaa"  
 />  
 <EditText  
 android:id="@+id/eid1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="text"  
 />  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/aab"  
 />  
 <EditText  
 android:id="@+id/eid2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="text"  
 />  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <Button  
 android:id="@+id/btn1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="ADD"  
 />  
  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <Button  
 android:id="@+id/btn2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="SUBTRACT"  
 />  
  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <Button  
 android:id="@+id/btn3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="MULTIPLY"  
 />  
  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <Button  
 android:id="@+id/btn4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="DIVIDE"  
 />  
  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <EditText  
 android:id="@+id/eid14"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="text"  
 />  
  
 </TableRow>

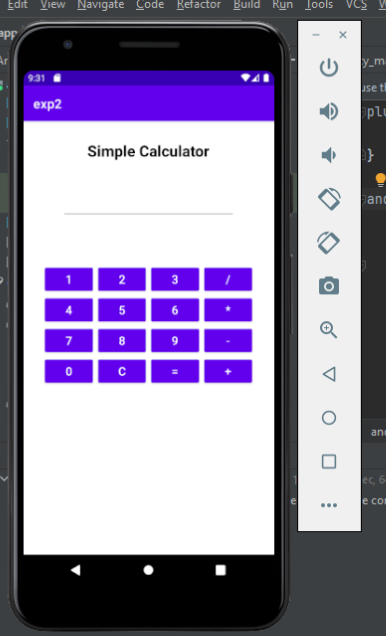
**MainActivity.java**

package com.example.nrsapplication1;  
  
  
  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
 Button b1, b2, b3, b4;  
 EditText e1, e2, e3, e4, e5, e6;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 e1 = findViewById(R.id.*eid1*);  
 e2 = findViewById(R.id.*eid2*);  
 e6 = findViewById(R.id.*eid14*);  
 b1 = findViewById(R.id.*btn1*);  
 b2 = findViewById(R.id.*btn2*);  
 b3 = findViewById(R.id.*btn3*);  
 b4 = findViewById(R.id.*btn4*);  
  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 calculate("+");  
 }  
 });  
  
 b2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 calculate("-");  
 }  
 });  
  
 b3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 calculate("\*");  
 }  
 });  
  
 b4.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 calculate("/");  
 }  
 });  
 }  
  
 private void calculate(String operator) {  
 double num1 = Double.*parseDouble*(e1.getText().toString());  
 double num2 = Double.*parseDouble*(e2.getText().toString());  
 double result = 0;  
  
 switch (operator) {  
 case "+":  
 result = num1 + num2;  
 break;  
 case "-":  
 result = num1 - num2;  
 break;  
 case "\*":  
 result = num1 \* num2;  
 break;  
 case "/":  
 if (num2 != 0) {  
 result = num1 / num2;  
 } else {  
 e6.setText("Division by zero is not allowed.");  
 return;  
 }  
 break;  
 }  
  
 e6.setText(String.*valueOf*(result));  
 }  
}

**Strings.xml**

<resources>  
 <string name="app\_name">NRSApplication1</string>  
  
 <string name="aaa">NUMBER\_1</string>  
 <string name="aab">NUMBER\_2</string>  
 </resources>

**OUTPUT**



**To implement an Android program tocheck whether a number is odd or even**

**MainActiviy.java**

package com.example.nrsapplication1;  
  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
 Button b;  
 EditText ed1;  
 TextView tv1;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 ed1=findViewById(R.id.*eid1*);  
 tv1=findViewById(R.id.*eid1*);  
 b=findViewById(R.id.*btn1*);  
 b.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String num1 = ed1.getText().toString();  
 Integer a = Integer.*parseInt*(num1);  
 if( a % 2 == 0)  
 {  
 tv1.setText("Result: "+ String.*valueOf*(a) + "is even");  
 }  
 else  
 {  
 tv1.setText("Result: "+String.*valueOf*(a) + "is odd");  
 }  
 }  
 });  
 }  
}

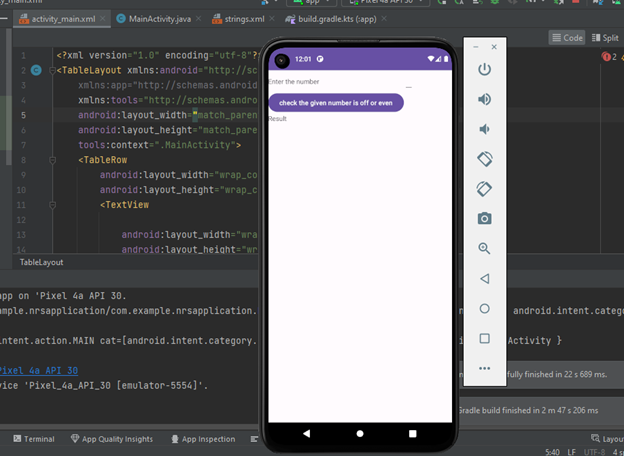
activcity\_main.xml

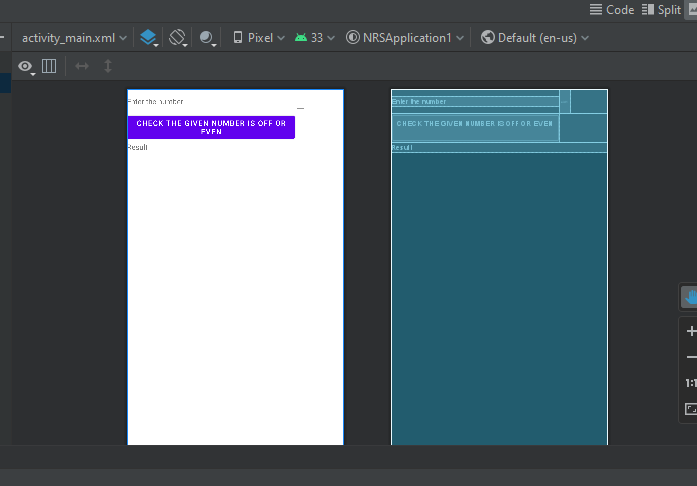
<?xml version="1.0" encoding="utf-8"?>  
<TableLayout xmlns:android="http://schemas.android.com/apk/res/android"  
xmlns:app="http://schemas.android.com/apk/res-auto"  
xmlns:tools="http://schemas.android.com/tools"  
android:layout\_width="match\_parent"  
android:layout\_height="match\_parent"  
tools:context=".MainActivity">  
<TableRow  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content">  
 <TextView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/num1"/>  
 <EditText  
 android:id="@+id/eid1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="number" />  
  
</TableRow>  
<TableRow  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content" >  
 <Button  
 android:id="@+id/btn1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="check the given number is off or even" />  
</TableRow>  
<TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/result" />  
  
</TableLayout>

Strings.xml

<resources>  
 <string name="app\_name">NRSApplication1</string>  
  
 <string name="num1">Enter the number</string>  
 <string name="result">Result</string>  
  
  
</resources>

Output





**Registration form using relative layout**

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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="LOGIN PAGE"

/>

<EditText

android:id="@+id/nm"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:hint="Name" />

<EditText

android:id="@+id/un"

android:layout\_width="wrap\_content"

android:layout\_height="48dp"

android:layout\_below="@id/nm"

android:hint="User Name" />

<EditText

android:id="@+id/pw"

android:layout\_width="wrap\_content"

android:layout\_height="48dp"

android:layout\_below="@id/un"

android:hint="Password"

android:inputType="numberPassword"/>

<EditText

android:id="@+id/em"

android:layout\_width="wrap\_content"

android:layout\_height="48dp"

android:layout\_below="@id/pw"

android:hint="E-mail" />

<EditText

android:id="@+id/phn"

android:layout\_width="wrap\_content"

android:layout\_height="48dp"

android:layout\_below="@id/em"

android:hint="Phone number" />

<Button

android:id="@+id/btn"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/phn"

android:hint="Sign in" />

</RelativeLayout>

MainActivity.java

package com.example.nrs1;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText name;

EditText username;

EditText password;

EditText email;

EditText phnnumber;

Button reg;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

name=findViewById(R.id.*nm*);

username=findViewById(R.id.*un*);

password=findViewById(R.id.*pw*);

email=findViewById(R.id.*em*);

phnnumber=findViewById(R.id.*phn*);

reg=findViewById(R.id.*btn*);

reg.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String nam =name.getText().toString();

String usrnm=username.getText().toString();

String paswrd=password.getText().toString();

String eml=email.getText().toString();

String phnn=phnnumber.getText().toString();

String data ="Name" + nam + "\n User Name" + usrnm + "\n Password" + paswrd + "\n Email" + eml + "\n Phone" + phnn ;

Toast.*makeText*(MainActivity.this,data , Toast.*LENGTH\_SHORT*).show();

}

});

}

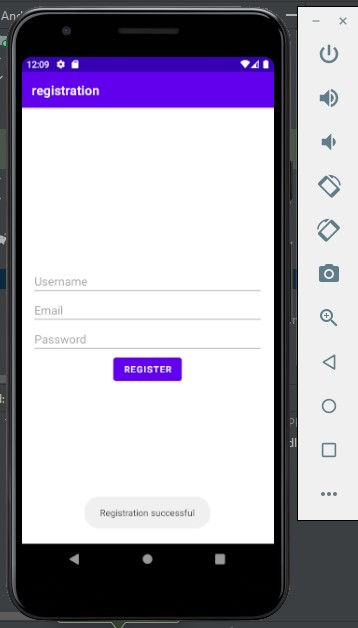
}

strings.xml

<resources>

<string name="app\_name">nrs1</string>

</resources>



activity lifecycle

jV

package com.example.myapplication;

package com.example.cycle;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

showToast("Activity Created");

}

protected void onStart(){

super.onStart();

showToast("Activity Started");

}

protected void onResume(){

super.onResume();

showToast("Activity Resumed");

}

protected void onPause(){

super.onPause();

showToast("Activity Paused");

}

protected void onStop(){

super.onStop();

showToast("Activity Stopped");

}

protected void onRestart(){

super.onRestart();

showToast("Activity Restarted");

}

@Override

protected void onDestroy() {

super.onDestroy();

showToast("Activity Destroyed");

}

void showToast(String message){

Toast.makeText(this,message,Toast.LENGTH\_LONG).show();

}

}

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:layout\_width="match\_parent"

android:layout\_height="match\_parent"

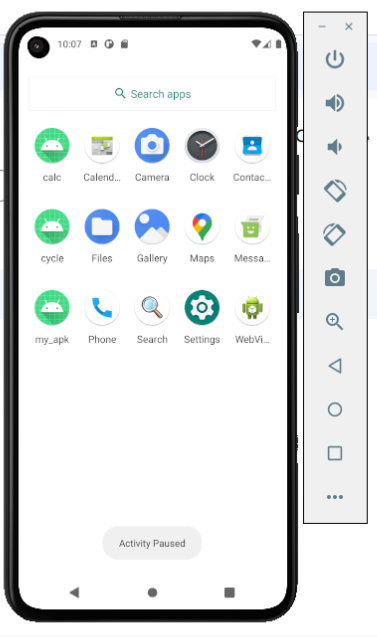
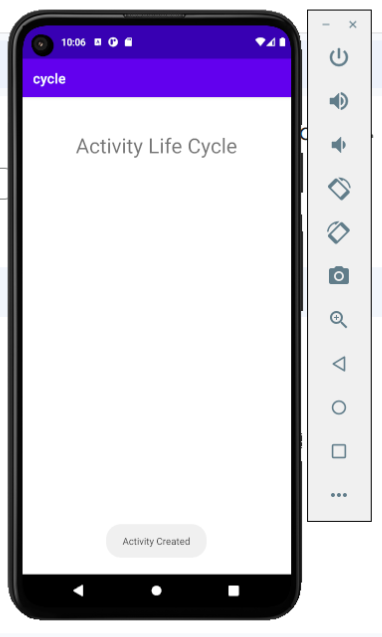
android:text="Activity Life Cycle"

android:textAlignment="center"

android:layout\_marginTop="50dp"

android:textSize="30dp"/>

</androidx.constraintlayout.widget.ConstraintLayout>



**UI**

**java**

package com.example.ui;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

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

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

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

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

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

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

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

@Override

public void onClick(View v) {

String layoutName = ((Button) v).getText().toString();

displayToken(layoutName);}};

constraintButton.setOnClickListener(buttonClickListener);

linearButton.setOnClickListener(buttonClickListener);

gridButton.setOnClickListener(buttonClickListener);

relativeButton.setOnClickListener(buttonClickListener);

frameButton.setOnClickListener(buttonClickListener);

tableButton.setOnClickListener(buttonClickListener);}

private void displayToken(String layoutName) {

Toast.*makeText*(this, "Token from " + layoutName, Toast.*LENGTH\_SHORT*).show();

}}

xml

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

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

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

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

**android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent"**

**android:orientation="vertical"**

**android:padding="16dp"**

**tools:context=".MainActivity">**

**<Button**

**android:id="@+id/constraintButton"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="ConstraintLayout" />**

**<Button**

**android:id="@+id/linearButton"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="LinearLayout" />**

**<Button**

**android:id="@+id/gridButton"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="GridLayout" />**

**<Button**

**android:id="@+id/relativeButton"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="RelativeLayout" />**

**<Button**

**android:id="@+id/frameButton"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="FrameLayout" />**

**<Button**

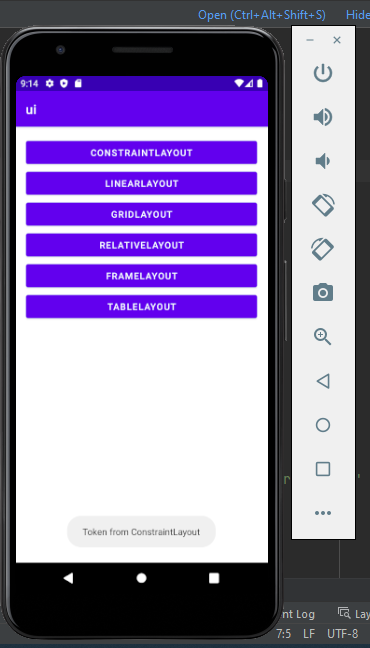
**android:id="@+id/tableButton"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="TableLayout" />**

**</LinearLayout>**



**exception handling**

**java**

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.Toast;

import java.util.ArrayList;

import java.util.List;

public class MainActivity extends AppCompatActivity {

List<String> list=new ArrayList();

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

list.add("ITEM 1");

list.add("ITEM 2");

list.add("ITEM 3");

list.add("ITEM 4")

for(int i=0;i<5;i++){

try{

list.get(i);}

catch(Exception e){

Toast.*makeText*(this,"Exception caught",Toast.*LENGTH\_LONG*).show();

}}

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"

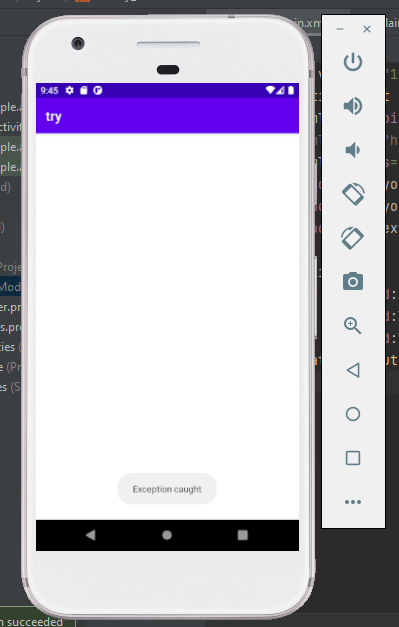
<ListView

android:id="@+id/list"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"/>

</ListView>

****

**Android program to check whether a number is armstrong or not**

activity\_main.xml

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

<LinearLayout

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp"

tools:context=".MainActivity">

<EditText

android:id="@+id/numberInput"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter a number" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Check Armstrong Number"

android:onClick="checkArmstrong" />

<TextView

android:id="@+id/resultText"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="" />

</LinearLayout>

MainActivity.xml

package com.example.armstrong;

import androidx.appcompat.app.AppCompatActivity;

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 numberInput;

TextView resultText;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

numberInput = findViewById(R.id.*numberInput*);

resultText = findViewById(R.id.*resultText*);

}

public void checkArmstrong(View view)

{

String input = numberInput.getText().toString();

if (input.isEmpty())

{

Toast.*makeText*(this, "Please enter a number.", Toast.*LENGTH\_SHORT*).show();

return;

}

int number = Integer.*parseInt*(input);

if (isArmstrong(number)) {

resultText.setText(number + " is an Armstrong number.");

}

else

{

resultText.setText(number + " is not an Armstrong number.");

}

}

// Function to check if a number is an Armstrong number

private boolean isArmstrong(int number) {

int originalNumber, remainder, result = 0;

originalNumber = number;

while (originalNumber != 0) {

remainder = originalNumber % 10;

result += Math.*pow*(remainder, 3); // Change the exponent based on the number of digits

originalNumber /= 10;

}

return result == number;

}

}

**implement list view adapter view**

**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" >

<ListView

android:id="@+id/MyLists"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent" />

</RelativeLayout>

**java**

**package com.example.myapplication;**

**import androidx.appcompat.app.AppCompatActivity;**

**import android.os.Bundle;**

**import android.view.View;**

**import android.widget.AdapterView;**

**import android.widget.ArrayAdapter;**

**import android.widget.ListView;**

**import android.widget.TextView;**

**import android.widget.Toast;**

**public class MainActivity extends AppCompatActivity implements AdapterView.OnItemClickListener {**

**ListView l;**

**String[] days = {"c", "java", "c#", "daa"};**

**@Override**

**protected void onCreate(Bundle savedInstanceState) {**

**super.onCreate(savedInstanceState);**

**setContentView(R.layout.*activity\_main*);**

**l = findViewById(R.id.*MyLists*);**

**ArrayAdapter<String> adapter = new ArrayAdapter<String>(this, androidx.appcompat.R.layout.*support\_simple\_spinner\_dropdown\_item*, days);**

**l.setAdapter(adapter);**

**l.setOnItemClickListener(this);**

**}**

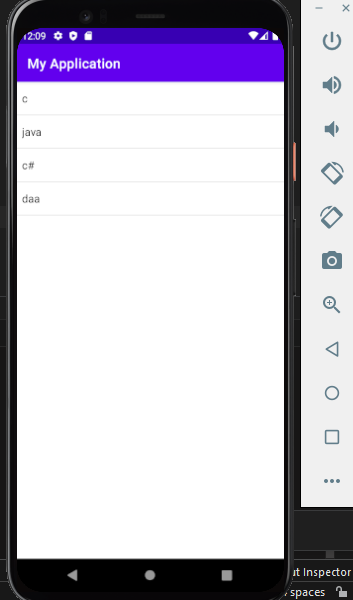
**@Override**

**public void onItemClick(AdapterView<?> adapterView, View view, int position, long id) {**

**TextView temp = (TextView) view;**

**Toast.*makeText*(this,"You Clicked" +temp.getText()+ "at"+position,Toast.*LENGTH\_SHORT*).show();**

**}}**

****