**Dirty bit, threads**

| **SumApp** | **9/06/22** |
| --- | --- |

/// **Calculator App #Java Code**

package com.example.sumapp;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void onPlus(View v)

{

EditText e1,e2,e3;

int a,b,s;

e1=(EditText)findViewById(R.id.et1);

e2=(EditText) findViewById(R.id.et2);

e3=(EditText) findViewById(R.id.et3);

a=Integer.parseInt(e1.getText().toString());

b=Integer.parseInt(e2.getText().toString());

s=a+b;

e3.setText(""+s);

}

public void onMinus(View v)

{

EditText e1,e2,e3;

int a,b,s;

e1=(EditText)findViewById(R.id.et1);

e2=(EditText) findViewById(R.id.et2);

e3=(EditText) findViewById(R.id.et3);

a=Integer.parseInt(e1.getText().toString());

b=Integer.parseInt(e2.getText().toString());

s=a-b;

e3.setText(""+s);

}

public void onMulti(View v)

{ EditText e1,e2,e3;

int a,b,s;

e1=(EditText)findViewById(R.id.et1);

e2=(EditText) findViewById(R.id.et2);

e3=(EditText) findViewById(R.id.et3);

a=Integer.parseInt(e1.getText().toString());

b=Integer.parseInt(e2.getText().toString());

s=a\*b;

e3.setText(""+s);

}

}

#XML Code\

<?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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/et1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<EditText

android:id="@+id/et2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<Button

android:id="@+id/b1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="+"

android:onClick="onPlus"

/>

<Button

android:id="@+id/b2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="-"

android:onClick="onMinus" />

<Button

android:id="@+id/b3"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="/" />

<Button

android:id="@+id/b4"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="\*" />

<EditText

android:id="@+id/et3"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

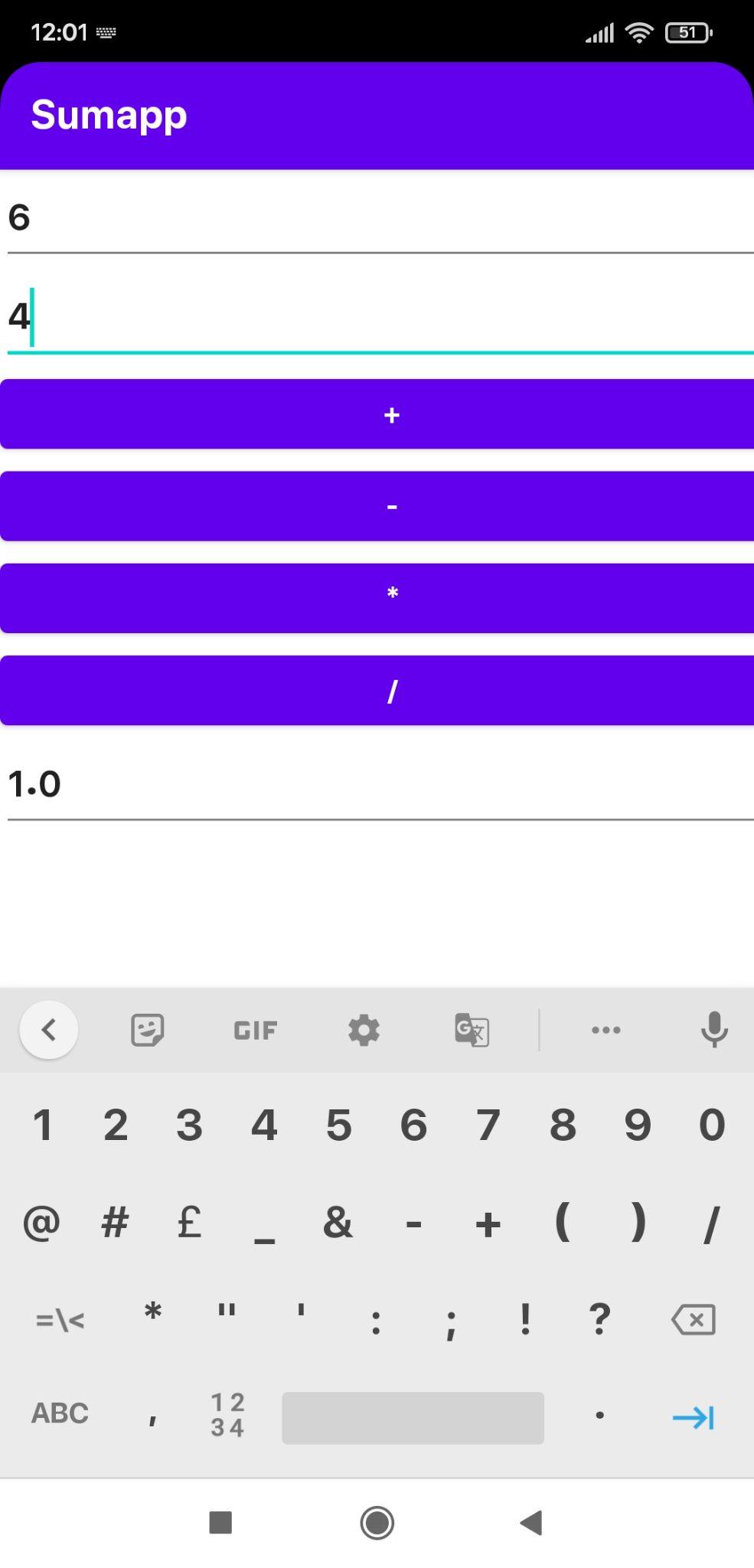
android:text="" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**Screenshots**

Multiply Subtract

AddDivide

**//# code for the buttons of Calculator eg. 12234**

package com.example.numbers;

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 {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

int s=0;

public void onMinus(View v)

{

EditText e3;

e3=(EditText) findViewById(R.id.et1);

e3.setText(e3.getText().toString()+"1");

}

public void onSec(View v)

{

EditText e3;

e3=(EditText) findViewById(R.id.et1);

e3.setText(e3.getText().toString()+"2");

}

public void on3(View v)

{

EditText e3;

e3=(EditText) findViewById(R.id.et1);

e3.setText(e3.getText().toString()+"3");

}

public void on4(View v)

{

EditText e3;

e3=(EditText) findViewById(R.id.et1);

e3.setText(e3.getText().toString()+"4");

}

public void on5(View v)

{

EditText e3;

e3=(EditText) findViewById(R.id.et1);

e3.setText(e3.getText().toString()+"4");

}

}

**Screenshot**



| **MultiAct** | **Date 13-06-22** |
| --- | --- |

**Creating 2 Activities**

MainActivity.java

package com.example.act1;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void onNext(View v)

{

Intent obj;

obj=new Intent(this,secondAct.class);

startActivity(obj);

}

public void onClose(View v)

{

finish();

}

}

**Manifest File**

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

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

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

package="com.example.act1">

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

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

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

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.Act1"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

<activity

android:name=".secondAct"

android:exported="true">

<intent-filter>

<action android:name="act.sec" />

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

</intent-filter>

</activity>

</application>

</manifest>

**secondAct**

package com.example.act1;

import android.os.Bundle;

import android.view.View;

import androidx.appcompat.app.AppCompatActivity;

public class secondAct extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.second);

}

public void onHide(View v)

{

finish();

}

}

**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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<Button

android:id="@+id/bNext"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Next"

android:onClick="onNext"/>

<Button

android:id="@+id/bClose"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Close"

android:onClick="onClose"/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**Second.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=".secondAct">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<Button

android:id="@+id/bHide"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Hide"

android:onClick="onHide"/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**Output**



**Creating 3 activities**

**MainActivity**

package com.example.act3;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void onSec(View v)

{

Intent obj;

obj=new Intent(this,secondAct.class);

startActivity(obj);

}

}

**secondAct**

package com.example.act3;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import androidx.appcompat.app.AppCompatActivity;

public class secondAct extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.second);

}

public void onThree(View v)

{

Intent obj;

obj=new Intent(this,thirdAct.class);

startActivity(obj);

}

}

**thirdAct**

package com.example.act3;

import android.os.Bundle;

import android.view.View;

import androidx.appcompat.app.AppCompatActivity;

public class thirdAct extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.third);

}

public void onHide(View v)

{

finish();

}

}

**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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="This is the first page by Benjamin"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.192" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Second"

tools:layout\_editor\_absoluteX="158dp"

tools:layout\_editor\_absoluteY="272dp"

android:onClick="onSec"/>

</androidx.constraintlayout.widget.ConstraintLayout>

**second.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=".secondAct">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="two"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.192" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="This is the second page By Benjamin"

tools:layout\_editor\_absoluteX="158dp"

tools:layout\_editor\_absoluteY="272dp"

android:onClick="onThree"/>

</androidx.constraintlayout.widget.ConstraintLayout>

**third.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=".thirdAct">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="This is the third page by Benjamin"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.192" />

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Back"

tools:layout\_editor\_absoluteX="158dp"

tools:layout\_editor\_absoluteY="272dp"

android:onClick="onHide"/>

</androidx.constraintlayout.widget.ConstraintLayout>

**Manifest File**

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

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

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

package="com.example.act3">

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

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

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

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.Act3"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

<activity

android:name=".secondAct"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

<activity

android:name=".thirdAct"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

</application>

</manifest>

**Output**

****



| **Projects** | **Date 16-06-22** |
| --- | --- |

# **Project 1:Change the Color of the Button**

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="fill\_parent"

android:layout\_height="fill\_parent">

<Button

android:layout\_height="wrap\_content"

android:layout\_width="fill\_parent"

android:text="Click ME"

android:onClick="randomizeColor"/>

<Button

android:layout\_height="wrap\_content"

android:layout\_width="fill\_parent"

android:text="string/No CLICK ME!!!"

android:onClick="randomizeColor"/>

<TextView

android:layout\_height="fill\_parent"

android:layout\_width="fill\_parent"

android:textSize="48px"

android:gravity="center\_horizontal"

android:text=" click on the button to see the color change "/>

</LinearLayout>

MainActivity.java

package com.example.projbuttoncolor;

import android.app.Activity;

import android.graphics.Color;

import android.os.Bundle;

import android.view.View;

import androidx.appcompat.app.AppCompatActivity;

import java.util.Random;

public class MainActivity extends AppCompatActivity {

// All the standard colors EXCEPT black (in which case you couldn't see the button)

private int[] mColorChoices =

{ Color.BLUE, Color.CYAN,

Color.DKGRAY, Color.GRAY, Color.GREEN,

Color.LTGRAY, Color.MAGENTA, Color.RED,

Color.WHITE, Color.YELLOW };

/\*\* Initializes the app when it is first created. \*/

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

/\*\* Randomly changes the bg color of the button that was pressed.

\* The layout file (main.xml) designates this method as the event handler for both buttons.

\*/

public void randomizeColor(View button) {

Random generator = new Random();

int index = generator.nextInt(mColorChoices.length);

button.setBackgroundColor(mColorChoices[index]);

}

}

**Output**



# 

# 

# **Project 2: Change the Color of the Background**

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="fill\_parent"

android:layout\_height="fill\_parent">

<Button

android:layout\_height="wrap\_content"

android:layout\_width="fill\_parent"

android:text="Click me!"

android:onClick="randomizeColor"/>

<Button

android:layout\_height="wrap\_content"

android:layout\_width="fill\_parent"

android:text="string/button2\_label"

android:onClick="randomizeColor"/>

<TextView

android:id="@+id/text\_region"

android:layout\_height="fill\_parent"

android:layout\_width="fill\_parent"

android:textSize="48px"

android:gravity="center\_horizontal"

android:text="Press Me!"/>

</LinearLayout>

Activity\_main.java

package com.example.projbgcolor;

import android.app.Activity;

import android.graphics.Color;

import android.os.Bundle;

import android.view.View;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

import com.example.projbgcolor.R;

import java.util.Random;

public class MainActivity extends AppCompatActivity

{

// All the standard colors

private int[] mColorChoices =

{ Color.BLACK, Color.BLUE, Color.CYAN,

Color.DKGRAY, Color.GRAY, Color.GREEN,

Color.LTGRAY, Color.MAGENTA, Color.RED,

Color.WHITE, Color.YELLOW };

private TextView mTextRegion;

/\*\* Initializes the app when it is first created. \*/

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

mTextRegion = (TextView)findViewById(R.id.text\_region);

}

/\*\* Randomly changes the bg color of the TextView.

\* The layout file (main.xml) designates this method as the event handler for both buttons.

\*/

public void randomizeColor(View button) {

Random generator = new Random();

int index = generator.nextInt(mColorChoices.length);

mTextRegion.setBackgroundColor(mColorChoices[index]);

}

**Screenshots**



# 

# 

# **Project 3:Hybrid**

**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="fill\_parent"

android:layout\_height="fill\_parent">

<Button

android:id="@+id/color\_button"

android:layout\_height="wrap\_content"

android:layout\_width="fill\_parent"

android:text="Press Here"/>

<TextView

android:id="@+id/color\_region"

android:layout\_height="fill\_parent"

android:layout\_width="fill\_parent"/>

</LinearLayout>

MainActivity.java

package com.example.projhybuttoncolor;

import android.app.Activity;

import android.graphics.Color;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

import android.view.View.OnClickListener;

import androidx.appcompat.app.AppCompatActivity;

import java.util.Random;

public class MainActivity extends AppCompatActivity {

private View mColorRegion;

private int[] mColorChoices =

{ Color.*BLACK*, Color.*BLUE*, Color.*CYAN*,

Color.*DKGRAY*, Color.*GRAY*, Color.*GREEN*,

Color.*LTGRAY*, Color.*MAGENTA*, Color.*RED*,

Color.*WHITE*, Color.*YELLOW* };

*/\*\* Initializes the app when it is first created. \*/*

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

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

mColorRegion = findViewById(R.id.*color\_region*);

Button colorButton =

(Button)findViewById(R.id.*color\_button*);

colorButton.setOnClickListener(new ColorRandomizer());

}

*/\*\* Sets the color of the color region. \*/*

private void setRegionColor(int color) {

mColorRegion.setBackgroundColor(color);

}

private class ColorRandomizer implements OnClickListener {

*/\*\* Calls back to the outer class to set the color of View at the bottom. \*/*

public void onClick(View clickedButton) {

Random generator = new Random();

int index = generator.nextInt(mColorChoices.length);

setRegionColor(mColorChoices[index]);

}

}

}

**Output**

****

**HW**

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">

<LinearLayout

android:layout\_width="408dp"

android:layout\_height="648dp"

android:orientation="vertical"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

<TextView

android:id="@+id/tTitle"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Compound Interest" />

<EditText

android:id="@+id/etLamt"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="Loan Amount" />

<EditText

android:id="@+id/etIntr"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="Interest" />

<EditText

android:id="@+id/etNoy"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="No. of Years" />

<TextView

android:id="@+id/tTamt"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Total Amount : " />

<Button

android:id="@+id/bCalc"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Calculate"

android:onClick="calculateCInterest"/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity.java

package com.example.compoundinterest;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

EditText elm,ei,enoy;

TextView tta;

double lamt,r,noy,tamt,ci;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

elm = findViewById(R.id.etLamt);

ei = findViewById(R.id.etIntr);

enoy = findViewById(R.id.etNoy);

tta = findViewById(R.id.tTamt);

}

public void calculateCInterest(View view) {

lamt = Double.parseDouble(elm.getText().toString());

r = Double.parseDouble(ei.getText().toString());

noy = Double.parseDouble(enoy.getText().toString());

if(noy>0) {

tamt = lamt;

for (int i = 1; i <= noy; i++)

{

ci=(tamt\*r)/100;

tamt+=ci;

}

tta.setText("Total Amount : " + Double.toString(tamt));

}

}

}

**Output**

****

**Taking text from one text field in activity 1 and displaying it on another activity on button click**

**Main Activity.java**

package com.example.myapp;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void onNext(View v)

{

EditText et;

et=(EditText)findViewById(R.id.et1);

Intent obj;

obj=new Intent(this,Act2.class);

obj.putExtra("name",et.getText().toString());

startActivity(obj);

}

}

**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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/et1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="hello" />

<Button

android:id="@+id/b2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Next"

android:onClick="onNext"/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**Act2.java**

package com.example.myapp;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class Act2 extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.second);

EditText et;

et=(EditText) findViewById(R.id.et1);

Intent obj=getIntent();

String str=obj.getExtras().getString("name");

et.setText(str);

}

public void onHide(View v)

{

finish();

}

}

**Second.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=".Act2">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/et1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="hello2" />

<Button

android:id="@+id/b2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Hide"

android:onClick="onHide"/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**Mainfest File**

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

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

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

package="com.example.myapp">

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

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

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

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.MyApp"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

<activity

android:name=".Act2"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

</application>

</manifest>



| CalcApp | Date: 17/06/22 |
| --- | --- |

**Making Multiple views, extracting values from different activities and using it**

MainActivity.java

package com.example.calcapp;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void onCalculate(View v) {

EditText e1,e2;

e1 = (EditText)findViewById(R.id.et1);

e2 = (EditText)findViewById(R.id.et2);

Intent obj = new Intent(getApplicationContext(),SecondActivity.class);

obj.putExtra("n1",e1.getText().toString());

obj.putExtra("n2",e2.getText().toString());

startActivity(obj);

}

}

SecondActivity.java

package com.example.calcapp;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class SecondActivity extends AppCompatActivity {

int a,b;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.second);

Intent obj = getIntent();

a = Integer.parseInt(obj.getExtras().getString("n1"));

b = Integer.parseInt(obj.getExtras().getString("n2"));

}

public void onSum(View v) {

Intent obj = new Intent(getApplicationContext(),SumActivity.class);

obj.putExtra("val1",a);

obj.putExtra("val2",b);

obj.putExtra("op","+");

startActivity(obj);

}

public void onDifference(View v) {

Intent obj = new Intent(getApplicationContext(),SumActivity.class);

obj.putExtra("val1",a);

obj.putExtra("val2",b);

obj.putExtra("op","-");

startActivity(obj);

}

}

SumActivity.java

package com.example.calcapp;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class SumActivity extends AppCompatActivity {

int a,b;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.sum);

TextView t1,t2,t3;

t1 = (TextView)findViewById(R.id.tv1);

t2 = (TextView)findViewById(R.id.tv2);

t3 = (TextView)findViewById(R.id.tv3);

Intent obj = getIntent();

a = obj.getExtras().getInt("val1");

b = obj.getExtras().getInt("val2");

t1.setText("" + a);

t2.setText("" + b);

if(obj.getExtras().getString("op").equals("+")) {

t3.setText("Sum :" + (a+b));

}

else {

t3.setText("Difference :" + (a-b));

}

}

}

Activity\_main.xml

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

-<androidx.constraintlayout.widget.ConstraintLayout tools:context=".MainActivity" android:layout\_height="match\_parent" android:layout\_width="match\_parent" xmlns:tools="http://schemas.android.com/tools" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:android="http://schemas.android.com/apk/res/android">

<TextView android:layout\_height="wrap\_content" android:layout\_width="wrap\_content" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintBottom\_toBottomOf="parent" android:text="Hello World!"/>

-<TableLayout android:layout\_height="729dp" android:layout\_width="409dp" tools:layout\_editor\_absoluteY="1dp" tools:layout\_editor\_absoluteX="1dp">

-<TableRow android:layout\_height="match\_parent" android:layout\_width="match\_parent">

<TextView android:layout\_height="wrap\_content" android:layout\_width="wrap\_content" android:text="No1" android:id="@+id/textView"/>

<EditText android:layout\_height="wrap\_content" android:layout\_width="wrap\_content" android:text="Name" android:id="@+id/et1" android:inputType="textPersonName" android:ems="10"/>

</TableRow>

-<TableRow android:layout\_height="match\_parent" android:layout\_width="match\_parent">

<TextView android:layout\_height="wrap\_content" android:layout\_width="wrap\_content" android:text="No2" android:id="@+id/textView2"/>

<EditText android:layout\_height="wrap\_content" android:layout\_width="wrap\_content" android:text="Name" android:id="@+id/et2" android:inputType="textPersonName" android:ems="10"/>

</TableRow>

-<TableRow android:layout\_height="match\_parent" android:layout\_width="match\_parent">

<Button android:layout\_height="wrap\_content" android:layout\_width="wrap\_content" android:text="Calculate" android:id="@+id/bcalc" android:onClick="onCalculate"/>

</TableRow>

<TableRow android:layout\_height="match\_parent" android:layout\_width="match\_parent"/>

</TableLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

second.xml

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

-<androidx.constraintlayout.widget.ConstraintLayout tools:context=".MainActivity" android:layout\_height="match\_parent" android:layout\_width="match\_parent" xmlns:tools="http://schemas.android.com/tools" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:android="http://schemas.android.com/apk/res/android">

<TextView android:layout\_height="wrap\_content" android:layout\_width="wrap\_content" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintBottom\_toBottomOf="parent" android:text="Hello World!"/>

-<LinearLayout android:layout\_height="719dp" android:layout\_width="410dp" tools:layout\_editor\_absoluteY="1dp" tools:layout\_editor\_absoluteX="0dp" android:orientation="vertical">

<Button android:layout\_height="wrap\_content" android:layout\_width="match\_parent" android:text="SUM" android:onClick="onSum" android:id="@+id/bsum"/>

<Button android:layout\_height="wrap\_content" android:layout\_width="match\_parent" android:text="Difference" android:onClick="onDifference" android:id="@+id/bdiff"/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

sum.xml

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

-<androidx.constraintlayout.widget.ConstraintLayout tools:context=".MainActivity" android:layout\_height="match\_parent" android:layout\_width="match\_parent" xmlns:tools="http://schemas.android.com/tools" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:android="http://schemas.android.com/apk/res/android">

<TextView android:layout\_height="wrap\_content" android:layout\_width="wrap\_content" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintBottom\_toBottomOf="parent" android:text="Hello World!"/>

-<LinearLayout android:layout\_height="719dp" android:layout\_width="410dp" tools:layout\_editor\_absoluteY="1dp" tools:layout\_editor\_absoluteX="0dp" android:orientation="vertical">

<TextView android:layout\_height="wrap\_content" android:layout\_width="match\_parent" android:text="TextView" android:id="@+id/tv1"/>

<TextView android:layout\_height="wrap\_content" android:layout\_width="match\_parent" android:text="TextView" android:id="@+id/tv2"/>

<TextView android:layout\_height="wrap\_content" android:layout\_width="match\_parent" android:text="TextView" android:id="@+id/tv3"/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

Manifest file

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

-<manifest package="com.example.calcapp" xmlns:tools="http://schemas.android.com/tools" xmlns:android="http://schemas.android.com/apk/res/android">

-<application tools:targetApi="31" android:theme="@style/Theme.CalcApp" android:supportsRtl="true" android:roundIcon="@mipmap/ic\_launcher\_round" android:label="@string/app\_name" android:icon="@mipmap/ic\_launcher" android:fullBackupContent="@xml/backup\_rules" android:dataExtractionRules="@xml/data\_extraction\_rules" android:allowBackup="true">

-<activity android:exported="true" android:name=".MainActivity">

-<intent-filter>

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

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

</intent-filter>

</activity>

-<activity android:exported="true" android:name=".SumActivity">

-<intent-filter>

<action android:name="calc.sum"/>

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

</intent-filter>

</activity>

+<activity android:exported="true" android:name=".SecondActivity">

</application>

</manifest>

**Output**





| ValPassAct | 23/06/22 |
| --- | --- |

**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">

<LinearLayout

android:layout\_width="373dp"

android:layout\_height="667dp"

android:orientation="vertical"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

<EditText

android:id="@+id/et1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName" />

<Button

android:id="@+id/bnext"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick="onNext"

android:text="Next" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.valpassact;

import androidx.annotation.Nullable;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

EditText e1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

e1 = findViewById(R.id.et1);

}

public void onNext(View view) {

Intent obj = new Intent(getApplicationContext(),SecondActivity.class);

startActivityForResult(obj,1);

}

@Override

protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {

super.onActivityResult(requestCode, resultCode, data);

e1.setText(data.getData().toString());

}

}

**second.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=".SecondActivity">

<LinearLayout

android:layout\_width="354dp"

android:layout\_height="677dp"

android:orientation="vertical"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

<EditText

android:id="@+id/et2"

android:layout\_width="344dp"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName" />

<Button

android:id="@+id/bnext"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick="onAssign"

android:text="Assign" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**SecondActivity.java**

package com.example.valpassact;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class SecondActivity extends AppCompatActivity {

EditText e2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.second);

e2 = findViewById(R.id.et2);

}

public void onAssign(View view) {

Intent obj2 = new Intent();

obj2.setData(Uri.parse("" + e2.getText().toString()));

setResult(RESULT\_OK,obj2);

finish();

}

}

**AndroidManifest.java**

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

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

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

package="com.example.valpassact">

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

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

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

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.ValPassAct"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

<activity

android:name=".SecondActivity"

android:exported="true">

<intent-filter>

<action android:name="act.sec" />

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

</intent-filter>

</activity>

</application>

</manifest>

| Menu Demo | Date: 27/06/22 |
| --- | --- |

**MainActivity.java**

package com.example.menudemo;

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.menu,menu);

return true;

}

@Override

public boolean onOptionsItemSelected(MenuItem item)

{

if(item.getTitle().toString().equals("Exit"))

{

finish();

return true;

}

else if(item.getItemId()==R.id.new1) {

Toast.makeText(this, "New menu clicked",Toast.LENGTH\_LONG).show();

}

else if(item.getItemId()==R.id.help1) {

Toast.makeText(this, "About menu clicked",Toast.LENGTH\_LONG).show();

}

return true;

}

}

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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

**menu.xml**

<?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:title="New" android:id="@+id/new1" />

<item android:title="Help" android:id="@+id/help1" />

<item android:title="Exit" android:id="@+id/exit" />

</menu>

ScreenShots





| GroupedMenuDemo | 27/06/22 |
| --- | --- |

**MainActivity.java**

package com.example.groupedmenudemo;

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.menu, menu);

return true;

}

@Override

public boolean onOptionsItemSelected(MenuItem item) {

if (item.getTitle().toString().equals("Exit")) {

finish();

return true;

} else if (item.getGroupId()== R.id.File) {

Toast.makeText(this, "New menu clicked", Toast.LENGTH\_SHORT).show();

} else if (item.getGroupId() == R.id.Help) {

Toast.makeText(this, "The about menu is clicked", Toast.LENGTH\_SHORT).show();

}

return true;

}

}

**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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

**menu.xml**

<?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">

<group android:id="@+id/File" >

<item android:id="@+id/new1" android:title="New" />

<item android:id="@+id/exit" android:title="Exit" />

</group>

<group android:id="@+id/Help" >

<item android:title="About" android:id="@+id/about" />

</group>

</menu>

**MainActivity.java**

package com.example.groupedmenudemo;

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.menu, menu);

return true;

}

@Override

public boolean onOptionsItemSelected(MenuItem item) {

if (item.getTitle().toString().equals("Exit")) {

finish();

return true;

} else if (item.getGroupId()== R.id.File) {

Toast.makeText(this, "New menu clicked", Toast.LENGTH\_SHORT).show();

} else if (item.getGroupId() == R.id.Help) {

Toast.makeText(this, "The about menu is clicked", Toast.LENGTH\_SHORT).show();

}

return true;

}

}

| ContextMenu | 30/6/22 |
| --- | --- |

**MainActivity.java**

package com.example.conmenudemo;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;

import android.os.Bundle;

import android.view.ContextMenu;

import android.view.MenuItem;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

import android.widget.Toast;

import org.w3c.dom.Text;

public class MainActivity extends AppCompatActivity {

TextView b;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b=(TextView)findViewById(R.id.bRight);

registerForContextMenu(b);

}

@Override

public void onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo menuInfo)

{

super.onCreateContextMenu(menu,v,menuInfo);

menu.setHeaderTitle("Select");

menu.add("Call");

menu.add("SMS");

}

@Override

public boolean onContextItemSelected(MenuItem item)

{

if(item.getTitle().toString().equals("Call"))

{

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

}

else if(item.getTitle().toString().equals("SMS"))

{

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

}

return super.onContextItemSelected(item);

}

}

**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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/et1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<Button

android:id="@+id/bRight"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Right Click" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

ScreenShot





| CallDemo | 30/06/22 |
| --- | --- |

**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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/et1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<Button

android:id="@+id/b1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="CliCK"

android:onClick="onfun"/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**Manifest File**

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

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

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

package="com.example.calldemo">

<uses-permission android:name="android.permission.CALL\_PHONE"/>

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

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

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

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.CallDemo"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

</application>

</manifest>

**Main\_Activity.java**

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

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

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

package="com.example.calldemo">

<uses-permission android:name="android.permission.CALL\_PHONE"/>

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

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

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

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.CallDemo"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

</application>

</manifest>



| Activities | 04/07/22 |
| --- | --- |

Its the basic component of most applications

There are Three types of activities

Pre defined activities, user-defined activities and pending activities

Each app will have 1 or more activities

There can be pgms which may or may not have GUI.

Each activity is inherited from activity class.

Check box,rd button,check boxes,text box all come under View or group of Views

Imp

In google maps it contains Activity and Services

Services does not have GUI. It runs in the background. Eg whatsapp pdf downloads then view, playing music tcp/udp server.

Broadcast Recivers

When battery low the sys conveys message/ broadcasts to all apps as well as the user and takes action.

Content Providers

The services requested to the actual provider

Database connectivity will be done using content providers

Intents

Start activity

Start activity for result

Start service

Start broadcast

States of a Activity //create ,ready state, running state

Active

Running

Paused

Stopped

Activity Stack //CONTROL STACK USED TO MAINTAIN RECENT PROCESSES IN OS

App is opened then it is closed then it goes back to previous activity. It Follows LIFO

| Activity Life Cycle | 4/07/22 |
| --- | --- |

**ActivityMain.java**

package com.example.alc;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.util.Log;

public class MainActivity extends AppCompatActivity {

//declaring a datamember and giving value

String msg="Android :";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

@Override

protected void onStart()

{

super.onStart();

Log.d(msg,"The onStart() event");

}

@Override

protected void onResume()

{

super.onResume();

Log.d(msg,"The onResume() event");

}

@Override

protected void onPause()

{

super.onPause();

Log.d(msg,"The onPause() event");

}

@Override

protected void onStop()

{

super.onStop();

Log.d(msg,"The onStop() event");

}

@Override

public void onDestroy()

{

super.onDestroy();

Log.d(msg,"The onDestroy() event");

}

}

**ScreenShots imp topic lab…**





2 main thread questions

| ListView | 4/07/22 |
| --- | --- |

**MainActivity.java**

package com.example.lview;

import androidx.appcompat.app.AppCompatActivity;

import android.app.ListActivity;

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 {

static final String []lst=new String[] {"One","Two","Three"};

ListView listView;

TextView textView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

listView=(ListView) findViewById(R.id.lv);

textView=(TextView) findViewById(R.id.t1);

final ArrayAdapter<String> adapter=new ArrayAdapter<String>(this, android.R.layout.simple\_list\_item\_1, android.R.id.text1,lst);

listView.setAdapter(adapter);

// setListAdapter(new ArrayAdapter<String>(this,R.layout.activity\_main,lst));

// ListView listView=getListView();

// listView.setTextFilterEnabled(true);

// listView.setOnItemClickListener(this);

}

public void onItemClick(AdapterView<?> arg0, View arg1, int arg2, long arg3)

{

String s;

TextView tv=(TextView) arg1;

s=(String) tv.getText().toString();

Toast.makeText(this, "s",2).show();

}

}

**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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="354dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

<ListView

android:id="@+id/lv"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="347dp"

app:layout\_constraintBottom\_toBottomOf="parent" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="354dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

<ListView

android:id="@+id/lv"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="347dp"

app:layout\_constraintBottom\_toBottomOf="parent" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

| Opening google with Button | 11/07/22 |
| --- | --- |

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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<Button

android:id="@+id/b1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick="ongo"

android:text="Search" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity.java

package com.example.newapp;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void ongo(View v)

{

EditText e1;

e1=(EditText) findViewById(R.id.et1);

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

intent.setData(Uri.parse( "https://www.google.com”);

startActivity(intent);

}

}



| Search any Page per user input | 11/07/22 |
| --- | --- |

MainActivity.java

package com.example.newapp;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void ongo(View v)

{

EditText e1;

e1=(EditText) findViewById(R.id.et1);

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

intent.setData(Uri.parse( e1.getText().toString()));

startActivity(intent);

}

}

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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/et1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName" />

<Button

android:id="@+id/b1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick="ongo"

android:text="Search" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>



| Search witH Google in App | 11/07/22 |
| --- | --- |

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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/et1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName" />

<Button

android:id="@+id/b1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick="ongo"

android:text="Search" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity.java

package com.example.newapp;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void ongo(View v)

{

EditText e1;

e1=(EditText) findViewById(R.id.et1);

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

intent.setData(Uri.parse( "https://www.google.com/search?q="+e1.getText().toString()));

startActivity(intent);

}

}

Fragments imp, list view imp

| Create a session with 2 activities | 25/07/22 |
| --- | --- |

Main\_Activity.java

package com.example.sp\_demo;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

EditText ed1,ed2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void onLogin(View v)

{

ed1=(EditText) findViewById(R.id.e1);

ed2=(EditText) findViewById(R.id.e2);

SharedPreferences sp;

sp=getSharedPreferences("SD", Context.MODE\_PRIVATE);

SharedPreferences.Editor ed=sp.edit();

ed.putString("un",ed1.getText().toString());

ed.putString("up",ed2.getText().toString());

ed.commit();

Intent in= new Intent(this,Sec.class);

startActivity(in);

}

}

ActivityMain.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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/e1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<EditText

android:id="@+id/e2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<Button

android:id="@+id/bLogin"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Login"

android:onClick="onLogin"/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

Sec.java

package com.example.sp\_demo;

import android.content.Context;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class Sec extends AppCompatActivity {

EditText ed1,ed2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.sec);

SharedPreferences sp;

ed1=(EditText) findViewById(R.id.e1);

ed2=(EditText) findViewById(R.id.e2);

sp=getSharedPreferences("SD",Context.MODE\_PRIVATE);

ed1.setText(sp.getString("un","").toString());

ed2.setText(sp.getString("up","").toString());

}

public void onClose(View v)

{

finish();

}

}

Sec.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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/e1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<EditText

android:id="@+id/e2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<Button

android:id="@+id/bClose"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Close"

android:onClick="onClose"/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

Manifest File

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

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

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

package="com.example.sp\_demo">

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

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

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

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.SP\_Demo"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

<activity

android:name=".Sec"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

</application>

</manifest>

**ScreenShots**

****

| **Session using 3 act** |  |
| --- | --- |

**Sec.java**

package com.example.session3act;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class sec extends AppCompatActivity {

EditText ed1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.Sec);

}

public void OnSec(View v)

{ed1=(EditText) findViewById(R.id.et1);

SharedPreferences hd;

hd=getSharedPreferences("SD",MODE\_PRIVATE);

SharedPreferences.Editor ed=hd.edit();

ed.putString("un",ed1.getText().toString());

ed.commit();

Intent in=new Intent(this,sec.class);

startActivity(in);

}

}

MainActivity.java

package com.example.session3act;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.Display;

import android.view.View;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

EditText ed1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void OnSec(View v)

{ed1=(EditText) findViewById(R.id.et1);

SharedPreferences hd;

hd=getSharedPreferences("SD",MODE\_PRIVATE);

SharedPreferences.Editor ed=hd.edit();

ed.putString("un",ed1.getText().toString());

ed.commit();

Intent in=new Intent(this,sec.class);

startActivity(in);

}

**}**

**ActivityMain.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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/et1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<Button

android:id="@+id/b1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Form"

android:onClick="OnSec"/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

| **Read and write from file** | **25/07/22** |
| --- | --- |

**MainActivity.java**

package com.example.filewriteread;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.IOException;

import java.io.InputStream;

import java.io.InputStreamReader;

import java.io.OutputStream;

import java.io.OutputStreamWriter;

public class MainActivity extends AppCompatActivity {

EditText ed1,ed2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

ed1 =(EditText) findViewById(R.id.e1);

ed2 =(EditText) findViewById(R.id.e2);

}

public void onWrite(View v) throws IOException {

FileOutputStream fout;

fout=openFileOutput(ed1.getText().toString(),0);

OutputStreamWriter osw=new OutputStreamWriter(fout);

osw.write(ed2.getText().toString());

osw.flush();

osw.close();

}

public void onRead(View v) throws IOException {

FileInputStream fin;

fin=openFileInput(ed1.getText().toString());

InputStreamReader isw=new InputStreamReader(fin);

char[]b=new char[50];

int n =isw.read(b,0,50);

String str =new String(b,0,n);

ed2.setText(str);

isw.close();

}

}

ActivityMain.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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/e1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="Name" />

<EditText

android:id="@+id/e2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="Name" />

<Button

android:id="@+id/bWrite"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick="onWrite"

android:text="Save" />

<Button

android:id="@+id/bRead"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick="onRead"

android:text="Read" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

****

| **downApp** |  |
| --- | --- |

**Main\_activity.java**

package com.example.pbdemo;

import androidx.appcompat.app.AppCompatActivity;

import android.app.Activity;

import android.app.ProgressDialog;

import android.os.Bundle;

import android.os.Handler;

import android.view.View;

public class MainActivity extends Activity implements Runnable{

ProgressDialog pbd;

Handler h;

int pv = 0;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void run()

{

try

{

while(pv<=100)

{

Thread.sleep(500);

pv += 10;

h.post(new Runnable()

{

public void run()

{

pbd.setProgress(pv);

}

});

}

Thread.sleep(500);

pbd.dismiss();

}

catch(Exception e)

{

}

}

public void onDownload(View v)

{

pv = 0;

h = new Handler();

pbd = new ProgressDialog(v.getContext());

pbd.setMax(100);

pbd.setProgress(0);

pbd.setCancelable(true);

pbd.setMessage("File downloading ...");

pbd.setProgressStyle(ProgressDialog.STYLE\_HORIZONTAL);

pbd.show();

Thread t = new Thread(this);

t.start();

}

}

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">

<EditText

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="http://www.svecw.edu.in/Docs%5CCSECNLNotes2013.pdf"

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="0.091" />

<Button

android:id="@+id/bDownload"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Download"

android:onClick="onStartDownload"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.454"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.304" />

</androidx.constraintlayout.widget.ConstraintLayout>

Manifest file

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

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

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

package="com.example.down\_app">

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

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

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

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

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

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.Down\_App"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

</application>

</manifest>

| Progress\_Bar |  |
| --- | --- |

Activity\_main.xml

package com.example.pbdemo;

import androidx.appcompat.app.AppCompatActivity;

ActivityMain.java

import android.app.Activity;

import android.app.ProgressDialog;

import android.os.Bundle;

import android.os.Handler;

import android.view.View;

public class MainActivity extends Activity implements Runnable{

ProgressDialog pbd;

Handler h;

int pv = 0;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void run()

{

try

{

while(pv<=100)

{

Thread.sleep(500);

pv += 10;

h.post(new Runnable()

{

public void run()

{

pbd.setProgress(pv);

}

});

}

Thread.sleep(500);

pbd.dismiss();

}

catch(Exception e)

{

}

}

public void onDownload(View v)

{

pv = 0;

h = new Handler();

pbd = new ProgressDialog(v.getContext());

pbd.setMax(100);

pbd.setProgress(0);

pbd.setCancelable(true);

pbd.setMessage("File downloading ...");

pbd.setProgressStyle(ProgressDialog.STYLE\_HORIZONTAL);

pbd.show();

Thread t = new Thread(this);

t.start();

}

}

MainActivity.java

package com.example.pbdemo;

import androidx.appcompat.app.AppCompatActivity;

import android.app.Activity;

import android.app.ProgressDialog;

import android.os.Bundle;

import android.os.Handler;

import android.view.View;

public class MainActivity extends Activity implements Runnable{

ProgressDialog pbd;

Handler h;

int pv = 0;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void run()

{

try

{

while(pv<=100)

{

Thread.sleep(500);

pv += 10;

h.post(new Runnable()

{

public void run()

{

pbd.setProgress(pv);

}

});

}

Thread.sleep(500);

pbd.dismiss();

}

catch(Exception e)

{

}

}

public void onDownload(View v)

{

pv = 0;

h = new Handler();

pbd = new ProgressDialog(v.getContext());

pbd.setMax(100);

pbd.setProgress(0);

pbd.setCancelable(true);

pbd.setMessage("File downloading ...");

pbd.setProgressStyle(ProgressDialog.STYLE\_HORIZONTAL);

pbd.show();

Thread t = new Thread(this);

t.start();

}

}

Outputs



Viva(sir also shared email with java questions)

Database-Collection of related data

Information-processed data or meaningful data.

Raw data- data that is not processed..

DBMS- it is an application software which is used for creation,manipulation and storing data

Oracle,access,sql server.

Database System= DBMS+Related Data (data and software is there but there is no system)

Underlined structure of the data is called data model.

Record based model,hierarchical model,network model, list based model….

relational database model- 2 tables are connected using forign key/relation/referential integrity.

**Placement question**

How can u reduce redundancy by introducing redundancy?- topic, normalization

1nf- split tabes

Eno Ename Esal Dno Dloc Dname

Eno Ename Esal

Dno Dname Dloc

Fr of RDMS Boye codd

Raid levels 6 levels 12 codd's rules

If all 12 rules satisfied then its in rdbms but generally till 10 rules satisfied =rdbms

All rdms should use sql it is by default thats why its not considers a rule sometimes.

Sql is a 4th generation language language.

Its called this because a person knows what is happening but don't know how its happening.

Sql is a structured query language which consists of ddl,dml,tcl.

2 classes which wwe will mainly use

SQLiteDatabase

SQLiteOpenHelper

| DBApp |  |
| --- | --- |

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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/e1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<EditText

android:id="@+id/e2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<EditText

android:id="@+id/e3"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="" />

<Button

android:id="@+id/b1"

android:onClick="onSave"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Save" />

<Button

android:id="@+id/b2"

android:onClick="onFind"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Find" />

<Button

android:id="@+id/b3"

android:onClick="onDelete"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Delete" />

<Button

android:id="@+id/b4"

android:onClick="onUpdate"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Update" />

<Button

android:id="@+id/b5"

android:onClick="onList"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="List ALL" />

<TextView

android:id="@+id/tv"

android:layout\_width="match\_parent"

android:layout\_height="354dp"

android:text="" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.dbapp;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.util.Log;

import android.view.View;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText e1,e2,e3;

CDB db;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

e1=(EditText) findViewById(R.id.e1);

e2=(EditText) findViewById(R.id.e2);

e3=(EditText) findViewById(R.id.e3);

db=new CDB(this);

}

public void onSave(View v)

{

String dn, dl;

dn=e2.getText().toString();

dl=e3.getText().toString();

Toast.makeText(this, dn+dl, Toast.LENGTH\_SHORT).show();

db.addDept(dn,dl);

e2.setText("");

e3.setText("");

}

public void onFind(View v)

{

String a[];

try {

{

String dno=e1.getText().toString();

a=db.getOneDepartment(Integer.parseInt(dno));

if(a[0]!="")

{

e2.setText(a[0]);

e3.setText(a[1]);

}

else

{

Toast.makeText(this,"Not found..", Toast.LENGTH\_SHORT).show();

}

}

} catch (Exception e) {

Log.d("SELECT123",e.toString());

}

}public void onDelete(View v)

{

String dno=e1.getText().toString();

db.deleteDept(Integer.parseInt(dno));

e2.setText("");

e3.setText("");

}

public void onUpdate(View v)

{

String dno=e1.getText().toString();

String dn,d1;

dn=e2.getText().toString();

d1=e3.getText().toString();

db.update(Integer.parseInt(dno),dn,d1);

e2.setText("");

e3.setText("");

}

public void onList(View v )

{

List<CDept> rec=db.getAllvalues();

String str="";

for (CDept cr:rec) {

String log = "DId:" + cr.id + ",DNAME:" + cr.dname + ",DLOC:" + cr.dloc;

log = log + "\n";

str = str + log;

}

TextView t=(TextView) findViewById(R.id.tv);

t.setText(str);

}

}

**CDB.java**

package com.example.dbapp;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

import android.util.Log;

public class CDB extends SQLiteOpenHelper {

private static final int DATABE\_VERSION = 1;

private static final String DATABASE\_NAME ="DMS";

public CDB(Context context)

{

super(context,DATABASE\_NAME,null,DATABE\_VERSION);

}

@Override

public void onCreate(SQLiteDatabase arg0) {

arg0.execSQL("create table TbDept (dno integer primary key autoincrement,dname text,dloc text)");

}

@Override

public void onUpgrade(SQLiteDatabase arg0, int arg1, int arg2) {

arg0.execSQL("DROP TABLE IF EXISTS TbDept");

onCreate(arg0);

}

public void addDept(String dn,String dl) {

try {

SQLiteDatabase db = this.getWritableDatabase();

ContentValues cv = new ContentValues();

cv.put("dname", dn);

cv.put("dloc", dl);

db.insert("TbDept", null, cv);

db.close();

} catch (Exception e) {

System.out.println(e);

Log.d("INSERT",e.toString());

}

}

public String[] getOneDepartment(int dno)

{

String a[]=new String[2];

try {

SQLiteDatabase db=this.getReadableDatabase();

Cursor cursor=db.query("TbDept",new String[]{"dno","dname","dloc"},"dno"+"=?",

new String[]{String.valueOf(dno)},null,null,null,null);

if(cursor!=null&&cursor.getCount()!=0)

{

cursor.moveToFirst();

a[0]=cursor.getString(1);

a[1]=cursor.getString(2);

}

else

{

a[0]="";

a[1]="";

}

} catch (Exception e) {

System.out.println(e);

Log.d("SELECT",e.toString());

}

return a;

}

public int deleteDept(int dno)

{

SQLiteDatabase db=this.getWritableDatabase();

return db.delete("TbDept", "dno=?",new String[]{String.valueOf(dno)});

}

public void update(int dno,String dn,String d1)

{

SQLiteDatabase db=this.getWritableDatabase();

ContentValues values=new ContentValues();

values.put("dname",dn);

values.put("dloc",d1);

db.update("TbDept",values,"dno=?",new String[]{String.valueOf(dno)});

db.close();

}

public List<CDept> getAllvalues()

{

List<CDept> recList=new ArrayList<CDept>();

//Select all query

String selectQuery="SELECT \* FROM TbDept";

SQLiteDatabase db=this.getReadableDatabase();

Cursor cursor=db.rawQuery(selectQuery,null);

//looping through all rows and adding to list

if (cursor.moveToFirst())

do{

CDept rec= new CDept();

rec.id=Integer.parseInt(cursor.getString(0));

rec.dname=cursor.getString(1);

rec.dloc=cursor.getString(2);

recList.add(rec);

} while (cursor.moveToNext());

return recList;

}

}

**CDept.java**

package com.example.dbapp;

public class CDept {

int id;

String dname;

String dloc;

}

**Output**

****

****

**Cursor**- it is a memory used for storing or retrieving information.

Declared,opened,fetch,closed operations

Sometimes downloading pgm, database pgm

Login table

Attributes

id,uname,upass,name(full name)

| Creating App with MySql Database | 12/09/22 |
| --- | --- |

First create a database using php my Admin do write query to make database and add tables.

Insert a few values at first. Then make a php file and mysqli connect using json encoding. It is used to show that the output will be in json format, we do this as we can decode in other languages such as java.

Ems database,emp table

Php file

<?php

$eno=$\_REQUEST["eno"];

$con=mysqli\_connect

("localhost:3306","root","");

mysqli\_select\_db($con,"ems");

$result=mysqli\_query($con,"select \* from emp where eno=$eno");

$row=mysqli\_fetch\_array($result);

echo json\_encode($row); //it is a jason format and can be decoded in java

?>

| SensorApp |  |
| --- | --- |

MainActivity.java

package com.example.sensor;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.Color;

import android.hardware.Sensor;

import android.hardware.SensorEvent;

import android.hardware.SensorEventListener;

import android.hardware.SensorManager;

import android.os.Bundle;

import android.view.View;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements SensorEventListener {

private SensorManager sensorManager;

private boolean isColor = false;

private View view;

private long lastUpdate;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

view = findViewById(R.id.textView);

view.setBackgroundColor(Color.GREEN);

sensorManager = (SensorManager) getSystemService(SENSOR\_SERVICE);

lastUpdate = System.currentTimeMillis();

}

//overriding two methods of SensorEventListener

@Override

public void onAccuracyChanged(Sensor sensor, int accuracy) {}

@Override

public void onSensorChanged(SensorEvent event) {

if (event.sensor.getType() == Sensor.TYPE\_ACCELEROMETER) {

getAccelerometer(event);

}

}

private void getAccelerometer(SensorEvent event) {

float[] values = event.values;

// Movement

float x = values[0];

float y = values[1];

float z = values[2];

float accelationSquareRoot = (x \* x + y \* y + z \* z)

/ (SensorManager.GRAVITY\_EARTH \* SensorManager.GRAVITY\_EARTH);

long actualTime = System.currentTimeMillis();

Toast.makeText(getApplicationContext(),String.valueOf(accelationSquareRoot)+" "+

SensorManager.GRAVITY\_EARTH, Toast.LENGTH\_SHORT).show();

if (accelationSquareRoot >= 2) //it will be executed if you shuffle

{

if (actualTime - lastUpdate < 200) {

return;

}

lastUpdate = actualTime;//updating lastUpdate for next shuffle

if (isColor) {

view.setBackgroundColor(Color.GREEN);

} else {

view.setBackgroundColor(Color.RED);

}

isColor = !isColor;

}

}

@Override

protected void onResume() {

super.onResume();

// register this class as a listener for the orientation and

// accelerometer sensors

sensorManager.registerListener(this,sensorManager.getDefaultSensor(Sensor.TYPE\_ACCELEROMETER),

SensorManager.SENSOR\_DELAY\_NORMAL);

}

@Override

protected void onPause() {

// unregister listener

super.onPause();

sensorManager.unregisterListener(this);

}

}

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">

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="Shake to switch color" />

</androidx.constraintlayout.widget.ConstraintLayout>

| CameraDemo |  |
| --- | --- |

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/button1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_centerHorizontal="true"

android:text="Take a Photo" >

</Button>

<ImageView

android:id="@+id/imageView1"

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

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

android:layout\_alignParentTop="true"

android:src="@drawable/ic\_launcher\_background" >

</ImageView>

</androidx.constraintlayout.widget.ConstraintLayout>

Main\_Activity.java

package com.example.camerademo;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.graphics.Bitmap;

import android.os.Bundle;

import android.view.Menu;

import android.view.View;

import android.widget.Button;

import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {

private static final int CAMERA\_REQUEST = 1888;

ImageView imageView;

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

setContentView(R.layout.activity\_main);

imageView = (ImageView) this.findViewById(R.id.imageView1);

Button photoButton = (Button) this.findViewById(R.id.button1);

photoButton.setOnClickListener(new View.OnClickListener() {

|  |  |
| --- | --- |

@Override

public void onClick(View v) {

Intent cameraIntent = new Intent(android.provider.MediaStore.ACTION\_IMAGE\_CAPTURE);

startActivityForResult(cameraIntent, CAMERA\_REQUEST);

}

});

}

protected void onActivityResult(int requestCode, int resultCode, Intent data) {

super.onActivityResult(requestCode, resultCode, data);

if (requestCode == CAMERA\_REQUEST) {

Bitmap photo = (Bitmap) data.getExtras().get("data");

imageView.setImageBitmap(photo);

}

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

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

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

return true;

}

}

| Rss Field Demo |
| --- |

Main\_Activity.java

package com.example.rss\_fielddemo;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.util.Log;

import android.view.View;

import android.webkit.WebView;

import android.widget.EditText;

import android.widget.Toast;

import org.xmlpull.v1.XmlPullParser;

import org.xmlpull.v1.XmlPullParserFactory;

import java.io.InputStream;

import java.net.HttpURLConnection;

import java.net.URL;

public class MainActivity extends AppCompatActivity {

EditText e1,e2,e3,e4,e5;

String ur;

String f,t,h,c;

public volatile boolean parsingComplete = true;

private XmlPullParserFactory xmlFactoryObject;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void onShow(View v)

{

Log.d("Here", "First");

WebView w1=(WebView)findViewById(R.id.webView);

e1 = (EditText)findViewById(R.id.etURL);

e2 = (EditText)findViewById(R.id.etT);

e3 = (EditText)findViewById(R.id.etL);

e4 = (EditText)findViewById(R.id.etD);

e5 = (EditText)findViewById(R.id.etC);

ur = e1.getText().toString();

w1.loadUrl(ur);

Log.d("Here1", "Second");

Thread thread = new Thread(new Runnable(){

public void run() {

try {

URL url = new URL(ur);

HttpURLConnection conn = (HttpURLConnection) url.openConnection();

conn.setReadTimeout(10000);

conn.setConnectTimeout(15000);

conn.setRequestMethod("GET");

conn.setDoInput(true);

conn.connect();

InputStream stream = conn.getInputStream();

xmlFactoryObject = XmlPullParserFactory.newInstance();

XmlPullParser myparser = xmlFactoryObject.newPullParser();

myparser.setFeature(XmlPullParser.FEATURE\_PROCESS\_NAMESPACES, false);

myparser.setInput(stream, null);

Log.d("Count", "" + stream.available());

parseXMLAndExtract(myparser);

stream.close();

}

catch (Exception e) {

Log.d("Error",e.toString());

}

}

});

Log.d("Here2", "Third");

thread.start();

Log.d("Here3", "Fourth");

while(this.parsingComplete)

;

Log.d("Here4", "Fifth");

e2.setText(t);

e3.setText(f);

e4.setText(h);

e5.setText(c);

}

public void parseXMLAndExtract(XmlPullParser myParser)

{

int event;

String text=null;

String test = "";

try

{

event = myParser.getEventType();

while (event != XmlPullParser.END\_DOCUMENT)

{

String name=myParser.getName();

test = test + name + "\n";

Log.d("TEST", test,null);

switch (event)

{

case XmlPullParser.START\_TAG:

break;

case XmlPullParser.TEXT:

text = myParser.getText();

test = test + text + "\n";

break;

case XmlPullParser.END\_TAG:

if(name.equals("to"))

{

t = text;

}

else if(name.equals("from"))

{

f = text;

}

else if(name.equals("heading"))

{

h = text;

}

else if(name.equals("body"))

{

c = text;

}

else

{

}

break;

}

event = myParser.next();

}

this.parsingComplete = false;

//Toast.makeText(this, test, 3).show();

System.out.println("DONEDONE");

}

catch (Exception e)

{

Toast.makeText(this,e.getMessage(), Toast.LENGTH\_SHORT).show();

}

}

}

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">

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:orientation="vertical" >

<TableLayout

android:id="@+id/tableLayout1"

android:layout\_width="fill\_parent"

android:layout\_height="317dp" >

<TableRow

android:id="@+id/tableRow1"

android:layout\_width="wrap\_content"

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

<TextView

android:id="@+id/textView1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="URL : "

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

<EditText

android:id="@+id/etURL"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="https://www.w3schools.com/xml/note.xml" >

<requestFocus />

</EditText>

</TableRow>

<TableRow

android:id="@+id/tableRow21"

android:layout\_width="wrap\_content"

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

<Button

android:id="@+id/bShow"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:onClick="onShow"

android:text="Show" />

</TableRow>

<TableRow

android:id="@+id/tableRow2"

android:layout\_width="wrap\_content"

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

<TextView

android:id="@+id/textView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="To : "

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

<EditText

android:id="@+id/etT"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

</TableRow>

<TableRow

android:id="@+id/tableRow3"

android:layout\_width="wrap\_content"

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

<TextView

android:id="@+id/textView3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="From : "

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

<EditText

android:id="@+id/etL"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

</TableRow>

<TableRow

android:id="@+id/tableRow4"

android:layout\_width="wrap\_content"

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

<TextView

android:id="@+id/textView4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Heading : "

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

<EditText

android:id="@+id/etD"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

</TableRow>

<TableRow

android:id="@+id/tableRow5"

android:layout\_width="wrap\_content"

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

<TextView

android:id="@+id/textView5"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Content : "

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

<EditText

android:id="@+id/etC"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

</TableRow>

</TableLayout>

<WebView

android:id="@+id/webView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

</androidx.constraintlayout.widget.ConstraintLayout>

Manifest File

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

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

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

package="com.example.rss\_fielddemo">

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

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

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

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

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.Rss\_fieldDemo"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

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

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

</intent-filter>

</activity>

</application>

</manifest>

| Speech Demo |  |
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