

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 android:padding="16dp">  
  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="LOGIN FORM"  
 android:textAlignment="center" />  
  
  
 <TextView  
 android:id="@+id/textView1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="USERNAME" />  
  
  
 <EditText  
 android:id="@+id/usernameEditText"  
 android:layout\_width="213dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:hint="Enter username" />  
  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="PASSWORD"  
 android:layout\_marginTop="16dp"/>  
  
  
 <EditText  
 android:id="@+id/passwordEditText"  
 android:layout\_width="215dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:hint="Enter password" />  
  
  
 <Button  
 android:id="@+id/loginButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Login" />  
  
  
</LinearLayout>

package com.example.myfirstapp;  
  
import android.os.Bundle;  
import android.util.Log;  
import android.view.View;  
import android.widget.EditText;  
import android.widget.Button;  
import android.widget.Toast;  
import androidx.appcompat.app.AppCompatActivity;  
  
  
  
public class MainActivity extends AppCompatActivity {  
 private static final String *VALID\_USERNAME*="user";  
 private static final String *VALID\_PASSWORD*="password";  
  
 private EditText usernameEditText;  
 private EditText passwordEditText;  
 private Button loginButton;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 usernameEditText=findViewById(R.id.*usernameEditText*);  
 passwordEditText=findViewById(R.id.*passwordEditText*);  
 loginButton=findViewById(R.id.*loginButton*);  
  
 loginButton.setOnClickListener(v ->{  
  
 String enteredUsername=usernameEditText.getText().toString();  
 String enteredPassword=passwordEditText.getText().toString();  
 if(isValidCredentials(enteredUsername,enteredPassword)){  
 showToast("Login succesful.");  
 }  
 else{  
 showToast("Invalid credentials");  
 }  
 }  
  
  
 );}  
 private boolean isValidCredentials(String enteredUsername, String enteredPassword){  
 return *VALID\_USERNAME*.equals(enteredUsername) && *VALID\_PASSWORD*.equals(enteredPassword);  
 }  
 private void showToast(String message){  
 Toast.*makeText*(this,message,Toast.*LENGTH\_LONG*).show();  
 }  
}

exp2

package com.example.exp2;

import android.os.Bundle;

import android.view.View;

import android.widget.TextView;

import android.widget.Button;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private TextView TextView1;

private String currentInput= "";

private double operand1=0;

private double operand2=0;

private String operator="";

private Button button0;

private Button button1;

private Button button2;

private Button button3;

private Button button4;

private Button button5;

private Button button6;

private Button button7;

private Button button8;

private Button button9;

private Button buttonDiv;

private Button buttonMul;

private Button buttonSub;

private Button buttonDot;

private Button buttonEqual;

private Button buttonAdd;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

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

TextView1=findViewById(R.id.*TextView1*);

}

public void onDigitClick(View view){

Button button=(Button) view;

currentInput+=button.getText().toString();

updateDisplay();

}

public void onOperatorClick(View view)

{

if(!currentInput.isEmpty())

{

operand1=Double.*parseDouble*(currentInput);

operator=((Button) view).getText().toString();

currentInput="";

}

}

public void onEqualsClick(View view)

{

if(!currentInput.isEmpty()){

double operand2=Double.*parseDouble*(currentInput);

double result=performOperation(operand1,operand2,operator);

currentInput=String.*valueOf*(result);

updateDisplay();

}

}

public void onClearClick(View view)

{

currentInput="";

operand1=0;

operator="";

updateDisplay();

}

private double performOperation(double operand1, double operand2, String operator) {

switch(operator)

{

case "+":

return operand1 + operand2;

case "-":

return operand1 - operand2;

case "\*":

return operand1 \* operand2;

case "/":

if(operand2!=0)

{

return operand1/operand2;

}else

{

return Double.*NaN*;

}

default:

return 0;

}

}

private void updateDisplay()

{

TextView1.setText(currentInput);

}

}

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

<LinearLayout

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="30dp"

android:gravity="center\_horizontal">

*<!-- Text View -->*

<TextView

android:id="@+id/TextView1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Simple Calculator"

android:textColor="@color/black"

android:textSize="24sp"

android:layout\_gravity="center"

android:layout\_marginBottom="16dp"

android:textStyle="bold"/>

*<!-- Edit Text-->*

<EditText

android:id="@+id/EditText1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_margin="30dp"

android:layout\_marginStart="50dp"

android:layout\_marginTop="50dp"

android:layout\_marginEnd="50dp"

android:layout\_marginBottom="50dp" />

<GridLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:rowCount="4"

android:columnCount="4"

android:layout\_gravity="center"

android:layout\_marginTop="40dp">

<Button

android:id="@+id/button1"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="1"

android:textSize="18sp"

android:onClick="onDigitClick"/>

<Button

android:id="@+id/button2"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="2"

android:textSize="18sp"

android:onClick="onDigitClick"/>

<Button

android:id="@+id/button3"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="3"

android:textSize="18sp"

android:onClick="onDigitClick"/>

<Button

android:id="@+id/buttonDiv"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="/"

android:textSize="18sp"

android:onClick="onOperatorClick"/>

<Button

android:id="@+id/button4"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="4"

android:textSize="18sp"

android:onClick="onDigitClick"/>

<Button

android:id="@+id/button5"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="5"

android:textSize="18sp"

android:onClick="onDigitClick"/>

<Button

android:id="@+id/button6"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="6"

android:textSize="18sp"

android:onClick="onDigitClick"/>

<Button

android:id="@+id/buttonMul"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="\*"

android:textSize="18sp"

android:onClick="onOperatorClick"/>

<Button

android:id="@+id/button7"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="7"

android:textSize="18sp"

android:onClick="onDigitClick"/>

<Button

android:id="@+id/button8"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="8"

android:textSize="18sp"

android:onClick="onDigitClick"/>

<Button

android:id="@+id/button9"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="9"

android:textSize="18sp"

android:onClick="onDigitClick"/>

<Button

android:id="@+id/buttonSub"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="-"

android:textSize="18sp"

android:onClick="onOperatorClick"/>

<Button

android:id="@+id/button0"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="0"

android:textSize="18sp"

android:onClick="onDigitClick"/>

<Button

android:id="@+id/buttonDot"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="C"

android:textSize="18sp"

android:onClick="onClearClick"/>

<Button

android:id="@+id/buttonEqual"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

android:text="="

android:textSize="18sp"

android:onClick="onEqualsClick"/>

<Button

android:id="@+id/buttonAdd"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

style="?android:attr/buttonStyleSmall"

android:layout\_columnWeight="1"

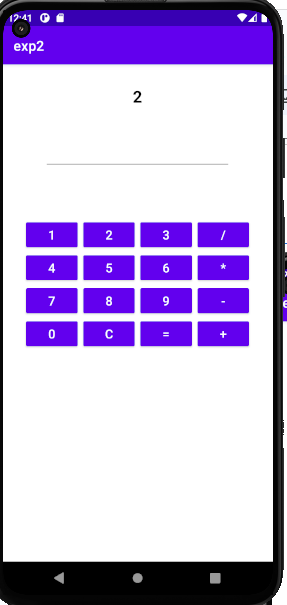
android:text="+"

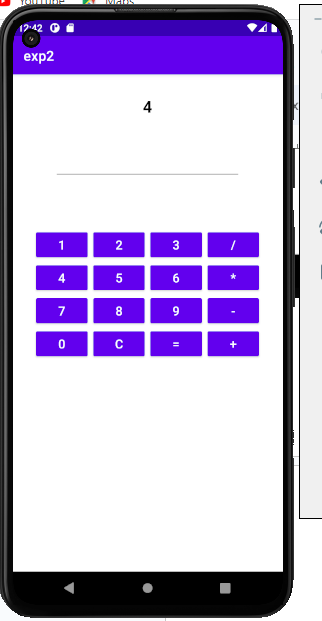
android:textSize="18sp"

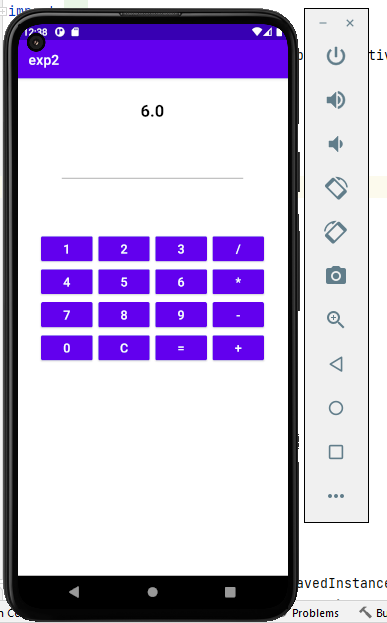
android:onClick="onOperatorClick"/>

</GridLayout>

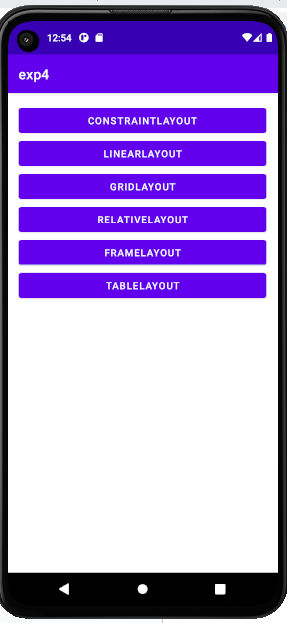
</LinearLayout>

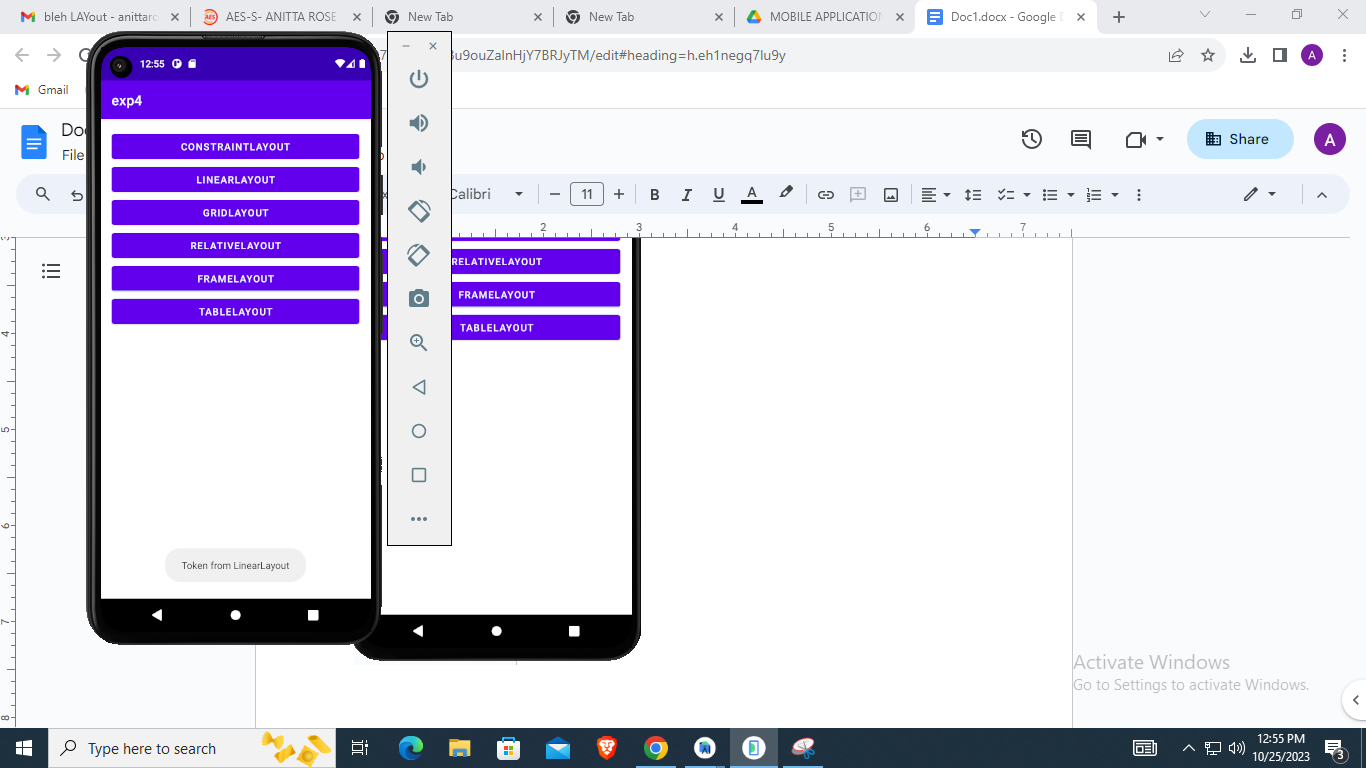


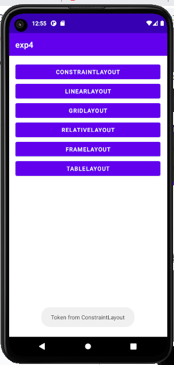


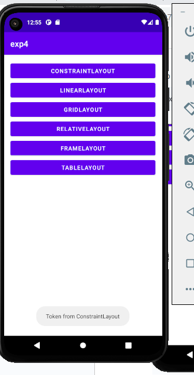


exp4

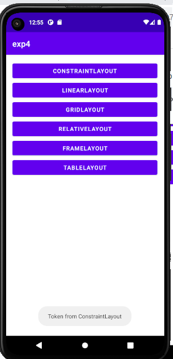












exp6

registration

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

<LinearLayout

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp"

android:gravity="center">

<EditText

android:id="@+id/usernameEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Username"

android:inputType="text" />

<EditText

android:id="@+id/emailEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Email"

android:inputType="textEmailAddress" />

<EditText

android:id="@+id/passwordEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Password"

android:inputType="textPassword" />

<Button

android:id="@+id/registerButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:text="Register" />

</LinearLayout>

activity.java

package com.example.exp6;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private EditText usernameEditText, emailEditText, passwordEditText;

private Button registerButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

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

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

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

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

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

registerButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

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

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

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

*// Store registration details in SharedPreferences*

SharedPreferences preferences = getSharedPreferences("MyPrefs", *MODE\_PRIVATE*);

SharedPreferences.Editor editor = preferences.edit();

editor.putString("username", username);

editor.putString("email", email);

editor.putString("password", password);

editor.apply();

Toast.*makeText*(MainActivity.this, "Registration successful", Toast.*LENGTH\_SHORT*).show();

*// Start another activity, e.g., MainActivity, using an Intent*

Intent intent = new Intent(MainActivity.this, MainActivity.class);

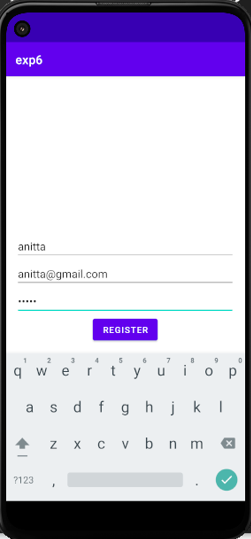
startActivity(intent);

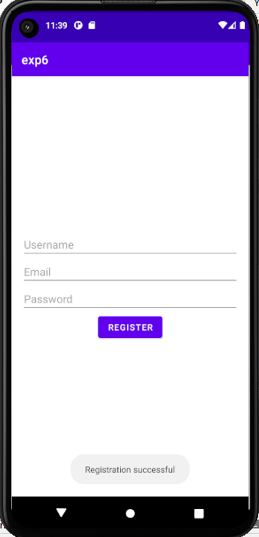
}

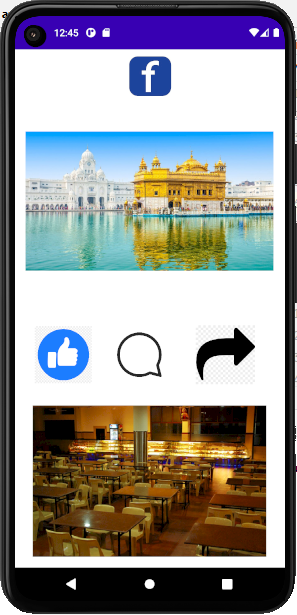
});

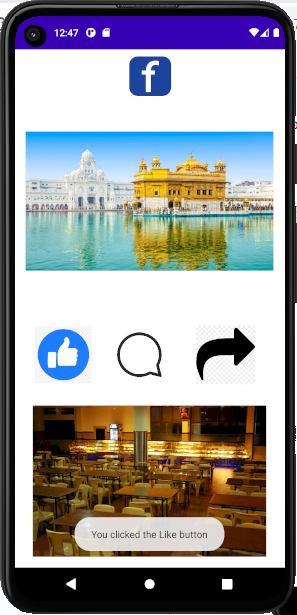
}

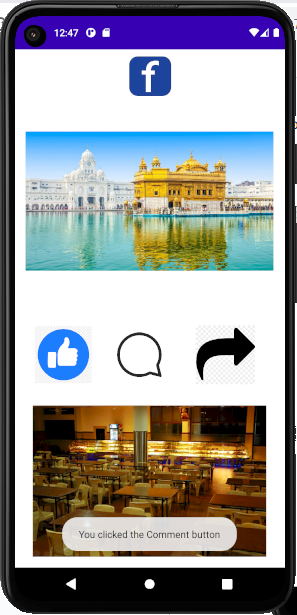
}











package com.example.exp4;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

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

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

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

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

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

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

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

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

@Override

public void onClick(View v) {

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

displayToken(layoutName);

}

};

constraintButton.setOnClickListener(buttonClickListener);

linearButton.setOnClickListener(buttonClickListener);

gridButton.setOnClickListener(buttonClickListener);

relativeButton.setOnClickListener(buttonClickListener);

frameButton.setOnClickListener(buttonClickListener);

tableButton.setOnClickListener(buttonClickListener);

}

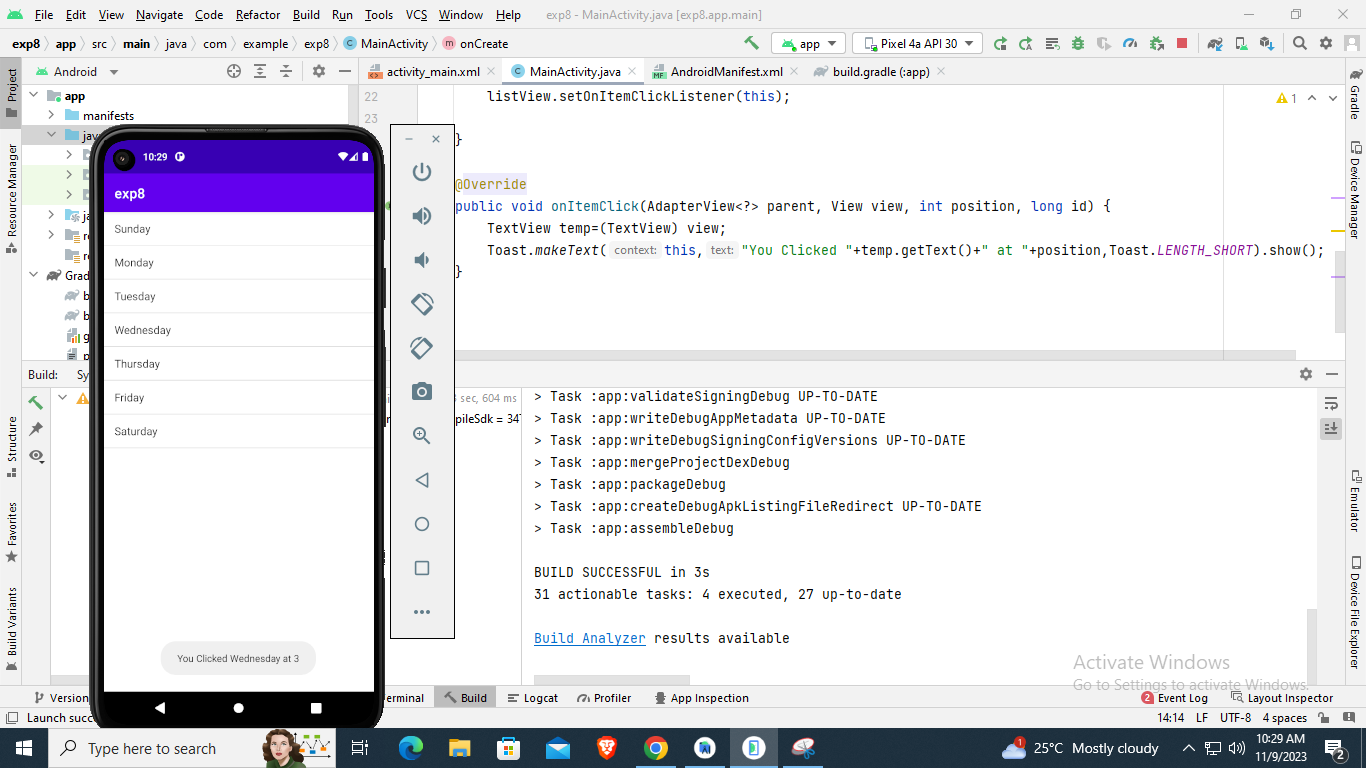
private void displayToken(String layoutName) {

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

}

}

exp8



EXP10

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

<LinearLayout

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp"

android:gravity="center">

<EditText

android:id="@+id/e"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="text"

android:hint="enter the name" />

<EditText

android:id="@+id/e1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="text"

android:hint="enter the age"/>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:onClick="switchActivity"

android:text="Submit" />

</LinearLayout>

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

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

}

public void switchActivity(View view) {

TextView text = findViewById(R.id.*e*);

TextView text2 = findViewById(R.id.*e1*);

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

String data=text.getText().toString();

String data2=text2.getText().toString();

*// Create an Intent to start MainActivity2*

Intent intent = new Intent(this, MainActivity2.class);

*// Put the data into the Intent*

intent.putExtra("key",data );

intent.putExtra("key2",data2 );

*// Start MainActivity2 with the Intent*

startActivity(intent);

}

}

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

<LinearLayout

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp"

android:gravity="center">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="TextView"

tools:layout\_editor\_absoluteX="181dp"

tools:layout\_editor\_absoluteY="190dp" />

<TextView

android:id="@+id/t2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="TextView"

tools:layout\_editor\_absoluteX="175dp"

tools:layout\_editor\_absoluteY="237dp" />

</LinearLayout>

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main2*);

Intent intent = getIntent();

String receivedData = intent.getStringExtra("key");

String receivedData2 = intent.getStringExtra("key2");

*// Display the received data in a TextView or do whatever you want with it*

TextView data = findViewById(R.id.*t1*); *// replace with the actual ID of your TextView*

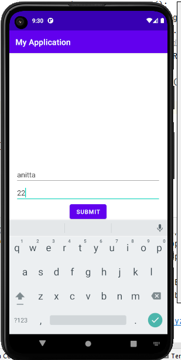
data.setText(receivedData);

TextView data2 = findViewById(R.id.*t2*); *// replace with the actual ID of your TextView*

data2.setText(receivedData2);

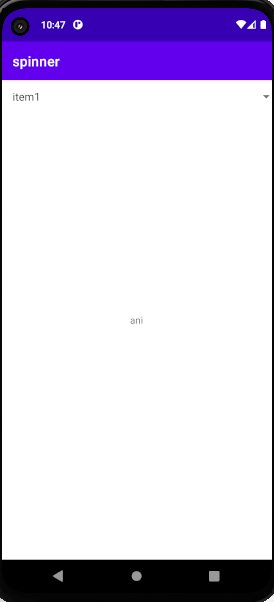
}

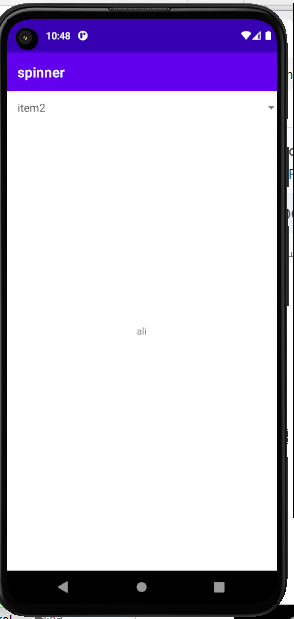
}

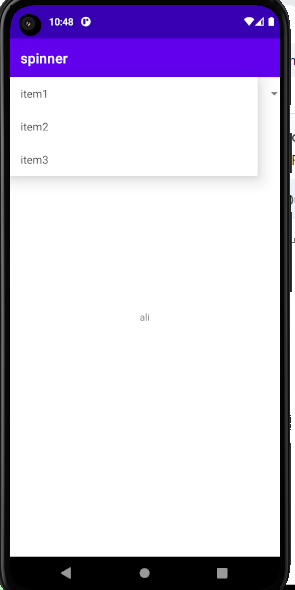




exp11 spinner







package com.example.spinner;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Spinner;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

String[] names = {"item1", "item2", "item3"};

String[] name = {"ani", "ali", "alee"};

ArrayAdapter<String> adapter;

Spinner spinner;

TextView selected\_item\_testview;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

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

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

selected\_item\_testview = findViewById(R.id.*selected\_item\_testview*);

adapter = new ArrayAdapter<String>(getApplicationContext(), android.R.layout.*simple\_list\_item\_1*, names);

spinner.setAdapter(adapter);

spinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {

@Override

public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l) {

switch (i) {

case 0:

selected\_item\_testview.setText("" + name[i]);

break;

case 1:

selected\_item\_testview.setText("" + name[i]);

break;

case 2:

selected\_item\_testview.setText("" + name[i]);

break;

}

}

@Override

public void onNothingSelected(AdapterView<?> adapterView) {

*// Handle the case where nothing is selected if needed*

}

});

}

}

*<?*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/selected\_item\_testview"

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" />

<Spinner

android:id="@+id/spinner"

android:layout\_width="409dp"

android:layout\_height="wrap\_content"

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

tools:layout\_editor\_absoluteY="62dp"

tools:ignore="MissingConstraints" />

</androidx.constraintlayout.widget.ConstraintLayout>