SQLite:

mainactivity.java

package com.example.database;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText name, contact, dob;

Button insert, update, delete, view;

DBHelper DB;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

name = findViewById(R.id.name);

contact = findViewById(R.id.contact);

dob = findViewById(R.id.dob);

insert = findViewById(R.id.btnInsert);

update = findViewById(R.id.btnUpdate);

delete = findViewById(R.id.btnDelete);

view = findViewById(R.id.btnView);

DB = new DBHelper(this);

insert.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

String contactTXT = contact.getText().toString();

String dobTXT = dob.getText().toString();

Boolean checkinsertdata = DB.insertuserdata(nameTXT, contactTXT, dobTXT);

if(checkinsertdata==true)

Toast.makeText(MainActivity.this, "New Entry Inserted", Toast.LENGTH\_SHORT).show();

else

Toast.makeText(MainActivity.this, "New Entry Not Inserted", Toast.LENGTH\_SHORT).show();

} });

update.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

String contactTXT = contact.getText().toString();

String dobTXT = dob.getText().toString();

Boolean checkupdatedata = DB.updateuserdata(nameTXT, contactTXT, dobTXT);

if(checkupdatedata==true)

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

else

Toast.makeText(MainActivity.this, "New Entry Not Updated", Toast.LENGTH\_SHORT).show();

} });

delete.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

Boolean checkudeletedata = DB.deletedata(nameTXT);

if(checkudeletedata==true)

Toast.makeText(MainActivity.this, "Entry Deleted", Toast.LENGTH\_SHORT).show();

else

Toast.makeText(MainActivity.this, "Entry Not Deleted", Toast.LENGTH\_SHORT).show();

} });

view.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Cursor res = DB.getdata();

if(res.getCount()==0){

Toast.makeText(MainActivity.this, "No Entry Exists", Toast.LENGTH\_SHORT).show();

return;

}

StringBuffer buffer = new StringBuffer();

while(res.moveToNext()){

buffer.append("Name :"+res.getString(0)+"\n");

buffer.append("Contact :"+res.getString(1)+"\n");

buffer.append("Date of Birth :"+res.getString(2)+"\n\n");

}

AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);

builder.setCancelable(true);

builder.setTitle("User Entries");

builder.setMessage(buffer.toString());

builder.show();

} });

}}

DBHelper.java

package com.example.database;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

import androidx.annotation.Nullable;

public class DBHelper extends SQLiteOpenHelper {

public DBHelper(Context context) {

super(context, "Userdata.db", null, 1);

}

@Override

public void onCreate(SQLiteDatabase DB) {

DB.execSQL("create Table Userdetails(name TEXT primary key, contact TEXT, dob TEXT)");

}

@Override

public void onUpgrade(SQLiteDatabase DB, int i, int ii) {

DB.execSQL("drop Table if exists Userdetails");

}

public Boolean insertuserdata(String name, String contact, String dob)

{

SQLiteDatabase DB = this.getWritableDatabase();

ContentValues contentValues = new ContentValues();

contentValues.put("name", name);

contentValues.put("contact", contact);

contentValues.put("dob", dob);

long result=DB.insert("Userdetails", null, contentValues);

if(result==-1){

return false;

}else{

return true;

}

}

public Boolean updateuserdata(String name, String contact, String dob)

{

SQLiteDatabase DB = this.getWritableDatabase();

ContentValues contentValues = new ContentValues();

contentValues.put("contact", contact);

contentValues.put("dob", dob);

Cursor cursor = DB.rawQuery("Select \* from Userdetails where name = ?", new String[]{name});

if (cursor.getCount() > 0) {

long result = DB.update("Userdetails", contentValues, "name=?", new String[]{name});

if (result == -1) {

return false;

} else {

return true;

}

} else {

return false;

}

}

public Boolean deletedata (String name)

{

SQLiteDatabase DB = this.getWritableDatabase();

Cursor cursor = DB.rawQuery("Select \* from Userdetails where name = ?", new String[]{name});

if (cursor.getCount() > 0) {

long result = DB.delete("Userdetails", "name=?", new String[]{name});

if (result == -1) {

return false;

} else {

return true;

}

} else {

return false;

}

}

public Cursor getdata ()

{

SQLiteDatabase DB = this.getWritableDatabase();

Cursor cursor = DB.rawQuery("Select \* from Userdetails", null);

return cursor;

}

}

activity\_main.xml

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:padding="10dp"

tools:context=".MainActivity">

<TextView

android:id="@+id/texttitle"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Please enter the details below"

android:textSize="24dp"

android:layout\_marginTop="20dp"/>

<EditText

android:id="@+id/name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Name"

android:textSize="24dp"

android:layout\_below="@+id/texttitle"

android:inputType="textPersonName"/>

<EditText

android:id="@+id/contact"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Contact"

android:textSize="24dp"

android:layout\_below="@+id/name"

android:inputType="number"/>

<EditText

android:id="@+id/dob"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Date of Birth"

android:textSize="24dp"

android:layout\_below="@+id/contact"

android:inputType="number"/>

<Button

android:id="@+id/btnInsert"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="24dp"

android:text="Insert New Data"

android:layout\_marginTop="30dp"

android:layout\_below="@id/dob"/>

<Button

android:id="@+id/btnUpdate"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="24dp"

android:text="Update Data"

android:layout\_below="@id/btnInsert"/>

<Button

android:id="@+id/btnDelete"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="24dp"

android:text="Delete Existing Data"

android:layout\_below="@id/btnUpdate"/>

<Button

android:id="@+id/btnView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="24dp"

android:text="View Data"

android:layout\_below="@id/btnDelete"/>

</RelativeLayout>

Shared preferences

activity\_main.xml

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity">

<TextView

android:id="@+id/textview"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center\_horizontal"

android:textSize="30sp"

tools:text="Here will be our text" />

<EditText

android:id="@+id/edittext"

android:layout\_width="match\_parent"

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

<Button

android:id="@+id/apply\_text\_button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center\_horizontal"

android:text="apply text" />

<Switch

android:id="@+id/switch1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center\_horizontal" />

<Button

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

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center\_horizontal"

android:text="save data" />

</LinearLayout>

main.java

package com.example.sharedpreferences;

import androidx.appcompat.app.AppCompatActivity;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Switch;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

private TextView textView;

private EditText editText;

private Button applyTextButton;

private Button saveButton;

private Switch switch1;

public static final String SHARED\_PREFS = "sharedPrefs";

public static final String TEXT = "text";

public static final String SWITCH1 = "switch1";

private String text;

private boolean switchOnOff;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

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

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

applyTextButton = (Button) findViewById(R.id.apply\_text\_button);

saveButton = (Button) findViewById(R.id.save\_button);

switch1 = (Switch) findViewById(R.id.switch1);

applyTextButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

textView.setText(editText.getText().toString());

}

});

saveButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

saveData();

}

});

loadData();

updateViews();

}

public void saveData() {

SharedPreferences sharedPreferences = getSharedPreferences(SHARED\_PREFS, MODE\_PRIVATE);

SharedPreferences.Editor editor = sharedPreferences.edit();

editor.putString(TEXT, textView.getText().toString());

editor.putBoolean(SWITCH1, switch1.isChecked());

editor.apply();

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

}

public void loadData() {

SharedPreferences sharedPreferences = getSharedPreferences(SHARED\_PREFS, MODE\_PRIVATE);

text = sharedPreferences.getString(TEXT, "");

switchOnOff = sharedPreferences.getBoolean(SWITCH1, false);

}

public void updateViews() {

textView.setText(text);

switch1.setChecked(switchOnOff);

}

}

Fragment life cycle

main.java

package com.example.fragmentlifecycle;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

}

acticity\_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\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

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

<fragment

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:id="@+id/test\_fragment"

android:name="com.example.fragmentlifecycle.test">

</fragment>

</androidx.constraintlayout.widget.ConstraintLayout>

fragment\_test.xml

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".test">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="check logcat" />

</FrameLayout>

test.java

package com.example.fragmentlifecycle;

import android.annotation.TargetApi;

import android.app.Activity;

import android.app.Fragment;

import android.os.Build;

import android.os.Bundle;

import android.util.Log;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

@TargetApi(Build.VERSION\_CODES.KITKAT)

public class test extends Fragment {

private void printLog(String s) {

// display a message in Log File

Log.d("LifeCycle:", s);

}

@Override

public void onActivityCreated(Bundle savedInstanceState) {

super.onActivityCreated(savedInstanceState);

printLog("onActivityCreated Called");

}

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {

View v = inflater.inflate(R.layout.fragment\_test, container, false);

printLog("onCreateView Called");

return v;

}

@Override

public void onViewCreated(View view, Bundle savedInstanceState) {

super.onViewCreated(view, savedInstanceState);

printLog("onViewCreated Called");

}

@Override

public void onAttach(Activity activity) {

super.onAttach(activity);

printLog("onAttach Called");

}

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

printLog("onCreate Called");

}

@Override

public void onDestroy() {

super.onDestroy();

printLog("onDestroy Called");

}

@Override

public void onDestroyView() {

super.onDestroyView();

printLog("onDestroyView Called");

}

@Override

public void onDetach() {

super.onDetach();

printLog("onDetach Called");

}

@Override

public void onPause() {

super.onPause();

printLog("onPause Called");

}

@Override

public void onResume() {

super.onResume();

printLog("onResume Called");

}

@Override

public void onStart() {

super.onStart();

printLog("onStart Called");

}

@Override

public void onStop() {

super.onStop();

printLog("onStop Called");

}

}

MENUS

1. Option Menu

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:id="@+id/clayout"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" android:text="Hello

World!" app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity.java

package com.example.optionmenu;

import androidx.annotation.NonNull; import

androidx.appcompat.app.AppCompatActivity; import

androidx.constraintlayout.widget.ConstraintLayout;

import android.graphics.Color;

import android.os.Bundle; import

android.view.Menu; import

android.view.MenuInflater; import

android.view.MenuItem; import

android.widget.Toast;

public class MainActivity extends AppCompatActivity

{

ConstraintLayout clayout;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

clayout= findViewById(R.id.clayout);

}

public boolean onCreateOptionsMenu(Menu menu) {

MenuInflater inflater = getMenuInflater();

inflater.inflate(R.menu.menu, menu);

return true;

}

@Override

public boolean onOptionsItemSelected(@NonNull MenuItem item) {

switch (item.getItemId())

{

case R.id.red : clayout.setBackgroundColor(Color.RED);

return true;

case R.id.blue : clayout.setBackgroundColor(Color.BLUE);

return true;

case R.id.green : clayout.setBackgroundColor(Color.GREEN);

return true;

case R.id.yellow : clayout.setBackgroundColor(Color.YELLOW);

return true;

default: return super.onOptionsItemSelected(item);

}

}

}

menu.xml

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

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

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

<item

android:id="@+id/red"

android:title="Red"

android:icon="@drawable/red"

app:showAsAction="ifRoom"/>

<item

android:id="@+id/green"

android:title="Green"

/>

<item

android:id="@+id/yellow"

android:title="Yellow" /> <item

android:id="@+id/blue"

android:title="Blue"

android:icon="@drawable/blue"

app:showAsAction="ifRoom"

/>

</menu>

2. Context Menu

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/text\_view"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!" android:textSize="20sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity.java

package com.example.contextmenu;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.ContextMenu;

import android.view.MenuItem;

import android.view.View; import

android.widget.TextView; import

android.widget.Toast;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

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

textView = findViewById(R.id.text\_view);

registerForContextMenu(textView);

}

@Override

public void onCreateContextMenu(ContextMenu menu, View v,

ContextMenu.ContextMenuInfo menuInfo) {

super.onCreateContextMenu(menu, v, menuInfo);

menu.setHeaderTitle("Choose an option");

getMenuInflater().inflate(R.menu.contextmenu, menu);

}

@Override

public boolean onContextItemSelected(@NonNull MenuItem item) {

switch(item.getItemId())

{

case R.id.option1 : display("option 1");

return true;

case R.id.option2 : display("option 2");

return true;

default: return

super.onContextItemSelected(item);

}

}

void display(String text)

{

Toast.makeText(getApplicationContext(), text, Toast.LENGTH\_SHORT).show();

}

}

contextmenu.xml

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

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

<item

android:id="@+id/option1"

android:title="Option1"

/>

<item

android:id="@+id/option2"

android:title="Option2"

/>

</menu>

3. Popup Menu

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:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="324dp"

android:onClick="showpopup" android:text="show

popup"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity.java package

com.example.popupmenu;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.MenuItem;

import android.view.View; import

android.widget.PopupMenu; import

android.widget.Toast;

public class MainActivity extends AppCompatActivity implements

PopupMenu.OnMenuItemClickListener {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

}

public void showpopup(View v)

{

PopupMenu popup = new PopupMenu(this,v);

popup.inflate(R.menu.popupmenu); popup.show();

popup.setOnMenuItemClickListener(this);

}

@Override

public boolean onMenuItemClick(MenuItem item) {

switch (item.getItemId())

{

case R.id.item1 : Toast.makeText(getApplicationContext(), "option1

selected", Toast.LENGTH\_SHORT).show(); return true;

case R.id.item2: Toast.makeText(getApplicationContext(), "option2

selected", Toast.LENGTH\_SHORT).show(); return true;

default: return super.onContextItemSelected(item);

}

}

}

popupmenu.xml

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

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

<item

android:id="@+id/item1"

android:title="Item1"/>

<item

android:id="@+id/item2"

android:title="Item2"/>

</menu>

Intents

Activitymain.xml

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

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

android:text="If you click on Explicit example we will navigate to second activity within App and if you click on Implicit example android homepage will open in Browser"

android:id="@+id/textView2"

android:clickable="false"

android:layout\_alignParentTop="true"

android:layout\_alignParentStart="true"

android:layout\_marginTop="42dp"

android:background="#3e7d02"

android:textColor="#ffffff"

android:layout\_alignParentLeft="true" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Explicit Intent Example"

android:id="@+id/explicit\_Intent"

android:layout\_alignParentTop="true"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="147dp" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Implicit Intent Example"

android:id="@+id/implicit\_Intent"

android:layout\_centerVertical="true"

android:layout\_centerHorizontal="true" />

</RelativeLayout>

activity\_second.xml

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

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

xmlns:tools="http://schemas.android.com/tools" android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".SecondActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textAppearance="?android:attr/textAppearanceLarge"

android:text="this\_is\_second\_activity"

android:id="@+id/textView"

android:layout\_centerVertical="true"

android:layout\_centerHorizontal="true" />

</RelativeLayout>

mainActivity.java

package com.example.intentsactivity;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

Button explicit\_btn, implicit\_btn;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

explicit\_btn = (Button)findViewById(R.id.explicit\_Intent);

implicit\_btn = (Button) findViewById(R.id.implicit\_Intent);

//implement Onclick event for Explicit Intent

explicit\_btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(getBaseContext(), SecondActivity.class);

startActivity(intent);

}

});

//implement onClick event for Implicit Intent

implicit\_btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

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

intent.setData(Uri.parse("https://developer.android.com/"));

startActivity(intent);

}

});

}

}

secondActivity.java

package com.example.intentsactivity;

import android.app.Activity;

import android.os.Bundle;

import android.widget.Toast;

public class SecondActivity extends Activity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_second);

Toast.makeText(getApplicationContext(), "We are moved to second Activity", Toast.LENGTH\_LONG).show();

}

}

Animation

activity\_main.xml

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

<RelativeLayout

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<ImageView

android:id="@+id/imageview"

android:layout\_width="200dp"

android:layout\_height="200dp"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="40dp"

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

android:src="@drawable/animation" />

<LinearLayout

android:id="@+id/linear1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

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

android:layout\_marginTop="30dp"

android:orientation="horizontal"

android:weightSum="3">

<Button

android:id="@+id/BTNblink"

style="@style/TextAppearance.AppCompat.Widget.Button"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_margin="10dp"

android:layout\_weight="1"

android:padding="3dp"

android:text="blink"

android:textColor="@color/white" />

<!--To start the rotate animation of the image-->

<Button

android:id="@+id/BTNrotate"

style="@style/TextAppearance.AppCompat.Widget.Button"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_margin="10dp"

android:layout\_weight="1"

android:padding="3dp"

android:text="clockwise"

android:textColor="@color/white" />

<!--To start the fading animation of the image-->

<Button

android:id="@+id/BTNfade"

style="@style/TextAppearance.AppCompat.Widget.Button"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_margin="10dp"

android:layout\_weight="1"

android:padding="3dp"

android:text="fade"

android:textColor="@color/white" />

</LinearLayout>

<LinearLayout

android:id="@+id/linear2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@id/linear1"

android:layout\_marginTop="30dp"

android:orientation="horizontal"

android:weightSum="3">

</LinearLayout>

<!--To stop the animation of the image-->

<Button

android:id="@+id/BTNstop"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@id/linear2"

android:layout\_marginLeft="30dp"

android:layout\_marginTop="30dp"

android:layout\_marginRight="30dp"

android:text="stop\_animation" />

</RelativeLayout>

mainActivity.java

package com.example.animation;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.view.animation.Animation;

import android.view.animation.AnimationUtils;

import android.widget.Button;

import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {

ImageView imageView;

Button blinkBTN, rotateBTN, fadeBTN, moveBTN, slideBTN, zoomBTN, stopBTN;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

imageView = findViewById(R.id.imageview);

blinkBTN = findViewById(R.id.BTNblink);

rotateBTN = findViewById(R.id.BTNrotate);

fadeBTN = findViewById(R.id.BTNfade);

stopBTN = findViewById(R.id.BTNstop);

blinkBTN.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.blink);

imageView.startAnimation(animation);

}

});

rotateBTN.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.rotate);

imageView.startAnimation(animation);

}

});

fadeBTN.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.fade);

imageView.startAnimation(animation);

}

});

stopBTN.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

imageView.clearAnimation();

}

});

}

}

res/anim

rotate.xml

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

<set

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

<rotate

android:duration="6000"

android:fromDegrees="0"

android:pivotX="50%"

android:pivotY="50%"

android:toDegrees="360" />

<rotate

android:duration="6000"

android:fromDegrees="360"

android:pivotX="50%"

android:pivotY="50%"

android:startOffset="5000"

android:toDegrees="0" />

</set>

blink.xml

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

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

<alpha android:fromAlpha="0.0"

android:toAlpha="1.0"

android:interpolator="@android:anim/accelerate\_interpolator"

android:duration="500"

android:repeatMode="reverse"

android:repeatCount="infinite"/>

</set>

fade.xml

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

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

android:interpolator="@android:anim/accelerate\_interpolator">

<alpha

android:duration="1000"

android:fromAlpha="0"

android:toAlpha="1" />

<alpha

android:duration="1000"

android:fromAlpha="1"

android:startOffset="2000"

android:toAlpha="0" />

</set>

List view

mainActivity.java

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.ListView;

public class MainActivity extends AppCompatActivity {

ListView l;

String tutorials[]

= { "Algorithms", "Data Structures",

"Languages", "Interview Corner",

"GATE", "ISRO CS",

"UGC NET CS", "CS Subjects",

"Web Technologies" };

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

l = findViewById(R.id.list);

ArrayAdapter<String> arr;

arr

= new ArrayAdapter<String>(

this,

R.layout.support\_simple\_spinner\_dropdown\_item,

tutorials);

l.setAdapter(arr);

}

}

activity\_main.xml

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

<LinearLayout

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<ListView

android:id="@+id/list"

android:layout\_width="match\_parent"

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

</LinearLayout>

custom list view

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">

<ListView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:id="@+id/customListView"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

android:divider="@color/black"

android:dividerHeight="2dp"

android:listSelector="@color/purple\_200"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

customlv.xml

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

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

android:orientation="vertical" android:layout\_width="match\_parent"

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

<ImageView

android:layout\_width="100dp"

android:layout\_height="100dp"

android:id="@+id/imageIcon" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/textView"

android:textSize="30sp"

android:gravity="center"

android:text="My Text" />

</LinearLayout>

mainActivity.java

package com.example.customlist;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.ListView;

public class MainActivity extends AppCompatActivity {

String fruitlist []={"Apple","Banana","Orange"};

int fruitImages []={R.drawable.apple,R.drawable.banana,R.drawable.orange};

ListView listView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

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

customBaseAdapter customBaseAdapter =new customBaseAdapter(getApplicationContext(),fruitlist,fruitImages);

listView.setAdapter(customBaseAdapter);

}

}

customBaseAdapter.java

package com.example.customlist;

import android.content.Context;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.BaseAdapter;

import android.widget.ImageView;

import android.widget.TextView;

public class customBaseAdapter extends BaseAdapter {

Context context;

String listFruit[];

int listImages[];

LayoutInflater inflater;

public customBaseAdapter(Context ctx,String []fruitlist,int [] fruitImages){

this.context =ctx;

this.listFruit =fruitlist;

this.listImages=fruitImages;

inflater =LayoutInflater.from(ctx);

}

@Override

public int getCount() {

return listFruit.length;

}

@Override

public Object getItem(int position) {

return null;

}

@Override

public long getItemId(int position) {

return 0;

}

@Override

public View getView(int position, View convertView, ViewGroup parent) {

convertView = inflater.inflate(R.layout.customlv,null);

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

ImageView fruitImg=(ImageView) convertView.findViewById(R.id.imageIcon);

textView.setText(listFruit[position]);

fruitImg.setImageResource(listImages[position]);

return convertView;

}

}

SPINNER

activity.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\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

tools:context="com.example.application.spinnerexample.MainActivity"

/>

<Spinner

android:id="@+id/spinner1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

string.xml

<resources>

<string name="app\_name">Spinner Example</string>

<string-array name="numbers">

<item>One</item>

<item>Two</item>

<item>Three</item>

<item>Four</item>

<item>Five</item>

</string-array>

</resources>

mainactivity.java

package com.example.spinner;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Spinner;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements AdapterView.OnItemSelectedListener {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Spinner spinner = findViewById(R.id.spinner1);

ArrayAdapter<CharSequence> adapter = ArrayAdapter.createFromResource(this,

R.array.numbers, android.R.layout.simple\_spinner\_item);

adapter.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);

spinner.setAdapter(adapter);

spinner.setOnItemSelectedListener(this);

}

@Override

public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {

String text = parent.getItemAtPosition(position).toString();

Toast.makeText(parent.getContext(), text, Toast.LENGTH\_SHORT).show();

}

@Override

public void onNothingSelected(AdapterView<?> parent) {

}

}

activity life cycle

mainActivity.java

package com.example.activitylifecycle;

import android.os.Bundle;

import com.google.android.material.snackbar.Snackbar;

import androidx.appcompat.app.AppCompatActivity;

import android.util.Log;

import android.view.View;

import androidx.navigation.NavController;

import androidx.navigation.Navigation;

import androidx.navigation.ui.AppBarConfiguration;

import androidx.navigation.ui.NavigationUI;

import com.example.activitylifecycle.databinding.ActivityMainBinding;

import android.view.Menu;

import android.view.MenuItem;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

private AppBarConfiguration appBarConfiguration;

private ActivityMainBinding binding;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Log.d("lifecycle","onCreate invoked");

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

}

@Override

protected void onStart(){

super.onStart();

Log.d("lifecycle","onStart invoked");

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

}

@Override

protected void onResume(){

super.onResume();

Log.d("lifecycle","onResume invoked");

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

}

@Override

protected void onPause(){

super.onPause();

Log.d("lifecycle","onPause invoked");

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

}

@Override

protected void onStop(){

super.onStop();

Log.d("lifecycle","onStop invoked");

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

}

@Override

protected void onRestart(){

super.onRestart();

Log.d("lifecycle","onRestart invoked");

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

}

@Override

protected void onDestroy(){

super.onDestroy();

Log.d("lifecycle","onDestroy invoked");

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

}

}

activity\_main.xml

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingLeft="16dp"

android:paddingRight="16dp"

android:orientation="horizontal" >

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Button 1" />

<Button

android:id="@+id/b2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Button 2" />

<Button

android:id="@+id/b3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Button 3" />

</LinearLayout>

RADIO BUTTON

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Select your favourite course : "

android:textColor="#000"

android:textSize="20sp"

android:textStyle="bold" />

<RadioGroup

android:layout\_width="wrap\_content"

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

<RadioButton

android:id="@+id/Dosa"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="10dp"

android:checked="true"

android:text="Java"

android:textColor="#154"

android:textSize="20sp"

android:textStyle="bold" />

<RadioButton

android:id="@+id/idly"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="10dp"

android:checked="false"

android:text="Android"

android:textColor="#154"

android:textSize="20sp"

android:textStyle="bold" />

<RadioButton

android:id="@+id/upma"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="10dp"

android:checked="false"

android:text="DBMS"

android:textColor="#154"

android:textSize="20sp"

android:textStyle="bold" />

<RadioButton

android:id="@+id/palakpaneer"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="10dp"

android:checked="false"

android:text="OOPS"

android:textColor="#154"

android:textSize="20sp"

android:textStyle="bold" />

<RadioButton

android:id="@+id/roti"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="10dp"

android:checked="false"

android:text="DCN"

android:textColor="#154"

android:textSize="20sp"

android:textStyle="bold" />

</RadioGroup>

<Button

android:id="@+id/submitButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:layout\_margin="20dp"

android:background="#0f0"

android:padding="10dp"

android:text="Submit"

android:textColor="#fff"

android:textSize="20sp"

android:textStyle="bold" />

</LinearLayout>

string.xml

<resources>

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

<string name="hello\_world">Hello world!</string>

<string name="action\_settings">Settings</string>

<string name="Java">Dosa</string>

<string name="Android">idly</string>

<string name="DBMS">upma</string>

<string name="OOPS">palakpaneer</string>

<string name="DCN">roti</string>

</resources>

mainactivity.java

package com.example.radio\_button;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.RadioButton;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

RadioButton Dosa, idly, upma, palakpaneer, roti;

String selectedfood;

Button submit;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Dosa = findViewById(R.id.Dosa);

idly = findViewById(R.id.idly);

upma = findViewById(R.id.upma);

palakpaneer = findViewById(R.id.palakpaneer);

roti = findViewById(R.id.roti);

submit = (Button) findViewById(R.id.submitButton);

submit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if (Dosa.isChecked()) {

selectedfood = Dosa.getText().toString();

} else if (idly.isChecked()) {

selectedfood = idly.getText().toString();

} else if (upma.isChecked()) {

selectedfood = upma.getText().toString();

} else if (palakpaneer.isChecked()) {

selectedfood = palakpaneer.getText().toString();

} else if (roti.isChecked()) {

selectedfood = roti.getText().toString();

}

Toast.makeText(getApplicationContext(), selectedfood, Toast.LENGTH\_LONG).show(); // print the value of selected super star

}

});

}

}

DATE PICKER

activitymain.xml

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

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

android:layout\_height="match\_parent"

android:layout\_width="match\_parent"

android:orientation="vertical">

<DatePicker

android:id="@+id/date"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:datePickerMode="calendar" />

<Button

android:id="@+id/submit"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Submit" />

</LinearLayout>

mainactivity.java

package com.example.datepicker;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.DatePicker;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

DatePicker date;

Button submit;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

date = findViewById(R.id.date);

submit = findViewById(R.id.submit);

submit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String day = "Day = " + date.getDayOfMonth();

String month = "Month = " + (date.getMonth() + 1);

String year = "Year = " + date.getYear();

Toast.makeText(getApplicationContext(),day+"\n"+month+"\n"+year, Toast.LENGTH\_SHORT).show();

}

});

}

}

TOGGLE BUTTON

activity main. xml

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:paddingBottom="@dimen/activity\_vertical\_margin"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center\_horizontal"

android:orientation="horizontal">

<ToggleButton

android:id="@+id/simpleToggleButton1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center\_horizontal"

android:checked="false"

android:drawablePadding="20dp"

android:drawableRight="@drawable/ic\_launcher\_background"

android:textColor="#000" />

<ToggleButton

android:id="@+id/simpleToggleButton2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center\_horizontal"

android:layout\_marginLeft="50dp"

android:checked="true"

android:drawableLeft="@drawable/ic\_launcher\_background"

android:drawablePadding="20dp"

android:textColor="#000" />

</LinearLayout>

<Button

android:id="@+id/submitButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:layout\_marginTop="50dp"

android:background="#0f0"

android:padding="10dp"

android:text="Submit"

android:textColor="#fff"

android:textSize="20sp"

android:textStyle="bold" />

</LinearLayout>

dimension.xml

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

<resources>

<dimen name="activity\_vertical\_margin">16dp</dimen>

<dimen name="activity\_horizontal\_margin">16dp</dimen>

</resources>

activitymain.java

package com.example.myapplicationtoggle;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.Toast;

import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {

ToggleButton simpleToggleButton1, simpleToggleButton2;

Button submit;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

// initiate toggle button's

simpleToggleButton1 = (ToggleButton) findViewById(R.id.simpleToggleButton1);

simpleToggleButton2 = (ToggleButton) findViewById(R.id.simpleToggleButton2);

submit = (Button) findViewById(R.id.submitButton);

submit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String status = "ToggleButton1 : " + simpleToggleButton1.getText() + "\n" + "ToggleButton2 : " + simpleToggleButton2.getText();

Toast.makeText(getApplicationContext(), status, Toast.LENGTH\_SHORT).show(); // display the current state of toggle button's

}

});

}

}

ARRAY ADAPTER

activity\_main.xml

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<ListView

android:id="@+id/simpleListView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:divider="#000"

android:dividerHeight="2dp"/>

</RelativeLayout>

ACTIVITY\_LIST\_VIEW.XML

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<TextView

android:id="@+id/textView"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:padding="@dimen/activity\_horizontal\_margin"

android:textColor="#000" />

</LinearLayout>

MAIN\_ACTIVITY.JAVA

package com.example.myapplicationarray;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.ArrayAdapter;

import android.widget.ListView;

public class MainActivity extends AppCompatActivity {

// Array of strings...

ListView simpleList;

String animalList[] = {"Lion","Tiger","Monkey","Elephant","Dog","Cat","Camel"};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

simpleList = (ListView) findViewById(R.id.simpleListView);

ArrayAdapter<String> arrayAdapter = new ArrayAdapter<String>(this, R.layout.activity\_list\_view, R.id.textView, animalList);

simpleList.setAdapter(arrayAdapter);

}

}