**Program No:9**

**Date:21/10/2024**

**APPLICATION USING INTENT**

**AIM**

Implement intend to navigate between multiple activities

**activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:textAlignment="textStart"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<TextView

android:id="@+id/textView3"

android:layout\_width="417dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="Registartion form"

android:textAlignment="center"

android:textSize="20sp" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<TextView

android:id="@+id/td"

android:layout\_width="wrap\_content"

android:layout\_height="31dp"

android:layout\_weight="1"

android:text="Name"

android:textSize="16sp" />

<EditText

android:id="@+id/ed\_name"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:ems="10"

android:hint="enter your name"

android:inputType="text"

android:onClick="enter your name" />

</LinearLayout>

<LinearLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<TextView

android:id="@+id/td1"

android:layout\_width="208dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="Email"

android:textSize="16sp" />

<EditText

android:id="@+id/ed\_email"

android:layout\_width="377dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:ems="10"

android:hint="enter your email"

android:inputType="text" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="55dp"

android:orientation="horizontal"

android:textAlignment="gravity">

<TextView

android:id="@+id/td2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="password"

android:textSize="16sp" />

<EditText

android:id="@+id/ed\_pass"

android:layout\_width="251dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:ems="10"

android:hint="enter your password"

android:inputType="textPassword" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<TextView

android:id="@+id/td3"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_weight="1"

android:text="Gender"

android:textAlignment="inherit"

android:textSize="16sp" />

<RadioGroup

android:id="@+id/rg\_gender"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:orientation="horizontal">

<RadioButton

android:id="@+id/r\_female"

android:layout\_width="93dp"

android:layout\_height="38dp"

android:text="male" />

<RadioButton

android:id="@+id/r\_male"

android:layout\_width="127dp"

android:layout\_height="wrap\_content"

android:text="Female" />

</RadioGroup>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<CheckBox

android:id="@+id/c\_agree"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="Agree" />

</LinearLayout>

<LinearLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<LinearLayout

android:layout\_width="156dp"

android:layout\_height="match\_parent"

android:layout\_weight="1"

android:orientation="horizontal"></LinearLayout>

<Button

android:id="@+id/bn1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:onClick="onclick"

android:text="Button"

android:textAlignment="center" />

</LinearLayout>

</LinearLayout>

**MainActivity.java**

package com.example.bundlelogin;

import static com.example.bundlelogin.R.id.ed\_email;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.EditText;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText name;

EditText email;

EditText pass;

RadioGroup gender;

RadioButton r\_female;

CheckBox agree;

Button bn;

Boolean isAllFieldsChecked;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

name=findViewById(R.id.ed\_name);

email=findViewById(ed\_email);

pass=findViewById(R.id.ed\_pass);

gender=findViewById(R.id.rg\_gender);

agree=findViewById(R.id.c\_agree);

bn=findViewById(R.id.bn1);

}

public void onclick(View view) {

isAllFieldsChecked=checkAllFields();

if(isAllFieldsChecked) {

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

Intent i=new Intent(MainActivity.this, MainActivity2.class);

i.putExtra("name",name.getText().toString());

i.putExtra("email",email.getText().toString());

i.putExtra("gender",gender.getCheckedRadioButtonId()==R.id.rg\_gender?"male":"Female");

startActivity(i);

}

};

private boolean checkAllFields(){

if (name.length() == 0) {

name.setError("name is required");

return false;

}

if (email.length() == 0) {

email.setError("email is required");

return false;

} else {

String email1 = email.getText().toString();

String checkEmail = "[a-zA-Z0-9.\_-]+@+[a-z]+.+[a-z]";

if (!email1.matches(checkEmail)) {

email.setError("select email");

return false;

}

}

if (pass.length() == 8) {

pass.setError("name is required");

return false;

}

if (gender.getCheckedRadioButtonId() == -1) {

r\_female.setError("select gender");

r\_female.requestFocus();

return false;

}

if (!agree.isChecked()) {

agree.setError("please agree");

agree.requestFocus();

return false;

}

return true;

}

}

**activity\_main2.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=".MainActivity2">

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="55dp"

android:text="Registration"

android:textAlignment="center"

android:textSize="20sp" />

<TextView

android:id="@+id/textView2"

android:layout\_width="match\_parent"

android:layout\_height="45dp"

android:text="name"

android:textSize="20sp" />

<TextView

android:id="@+id/textView4"

android:layout\_width="match\_parent"

android:layout\_height="61dp"

android:text="email"

android:textSize="20sp" />

<TextView

android:id="@+id/textView5"

android:layout\_width="match\_parent"

android:layout\_height="46dp"

android:text="gender"

android:textSize="20sp" />

</LinearLayout>

**MainActivity.java**

package com.example.bundlelogin;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity2 extends AppCompatActivity {

TextView displayname,displaymail,displaygender;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

Toast.makeText(this, "LOGIN SUCCESSFULLY COMPLETED", Toast.LENGTH\_SHORT).show();

displayname=findViewById(R.id.textView2);

displaymail=findViewById(R.id.textView4);

displaygender=findViewById(R.id.textView5);

String name=getIntent().getStringExtra("name");

String email=getIntent().getStringExtra("email");

String gender=getIntent().getStringExtra("gender");

displayname.setText ("Name:"+name);

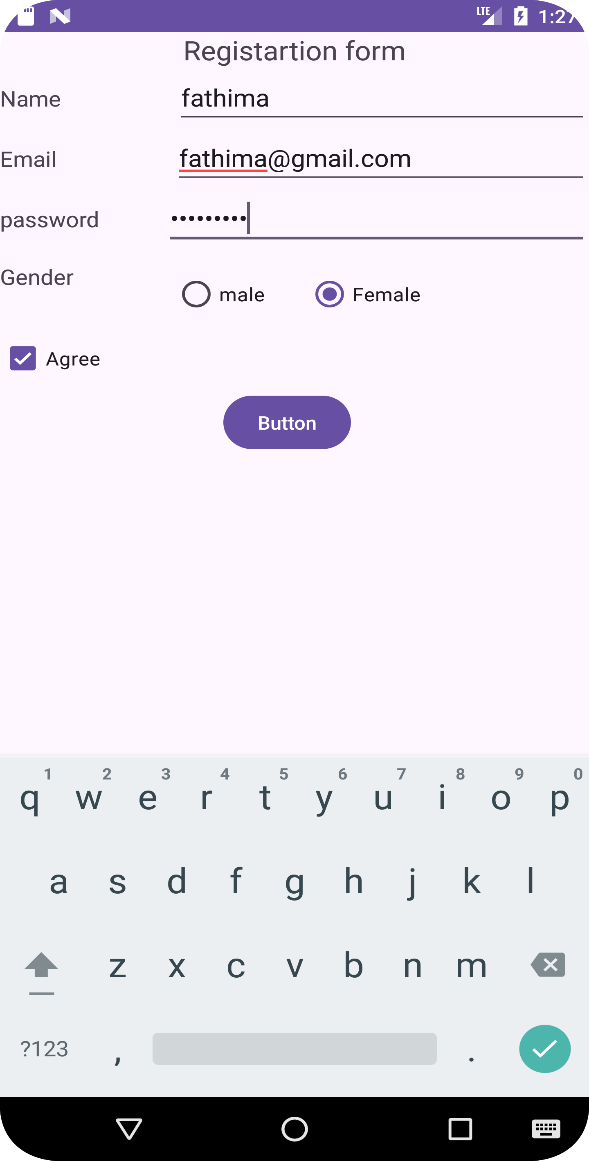
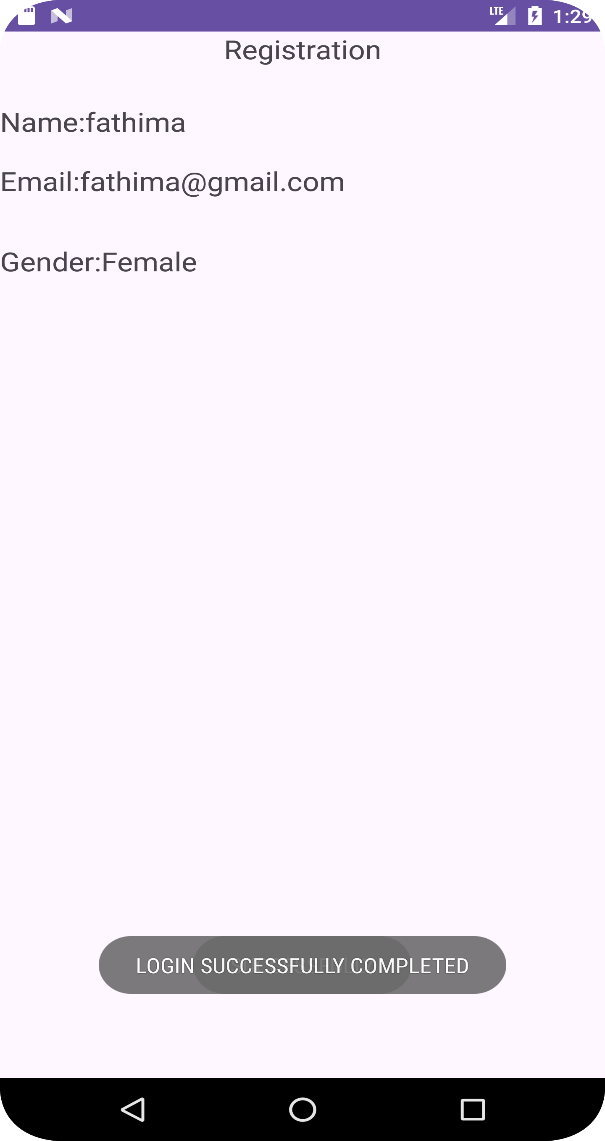
displaymail.setText ("Email:"+email);

displaygender.setText ("Gender:"+gender);

}

}

**OUTPUT**

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**Program No:10**

**Date:24/10/2024**

**LISTVIEW**

**AIM**

Develop an application that uses Array adaptor with list view

**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">

<ListView

android:id="@+id/listview"

android:layout\_width="match\_parent"

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

</LinearLayout>

**MainActivity.java**

package com.example.listview;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Adapter;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.ListView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

ListView lv;

String[] s={"Mon","Tue","Wed"};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

lv=findViewById(R.id.listview);

ArrayAdapter<String>adapter=new ArrayAdapter<String>(this,R.layout.layout,R.id.month,s);

lv.setAdapter(adapter);

lv.setOnItemClickListener(new AdapterView.OnItemClickListener() {

@Override

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

Toast.makeText(getApplicationContext(),lv.getItemAtPosition(i).toString(),Toast.LENGTH\_LONG).show();

}

});

}

}

**Layout.xml**

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

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

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:orientation="vertical">

<TextView

android:id="@+id/month"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="MONTH" />

</LinearLayout>

**OUTPUT**

**Program No:11**

**Date:24/10/2024**

**OPTIONS MENU**

**AIM**

Develop an application to implement an options 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: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>

**MainActivity.java**

package com.example.optionmenu;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

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 {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

MenuInflater inflater=getMenuInflater();

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

return true;

}

@Override

public boolean onOptionsItemSelected(@NonNull MenuItem item) {

if (item.getItemId()==R.id.item1)

{

Toast.makeText(this,"item1",Toast.LENGTH\_SHORT).show();

} else if (item.getItemId()==R.id.item2) {

Toast.makeText(this, "item2", Toast.LENGTH\_SHORT).show();

}

else {

Toast.makeText(this, "item3", Toast.LENGTH\_SHORT).show();

}

return true;

}

}

**menu.xml**

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

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

</menu>

**submenu.xml**

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

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

<item

android:id="@+id/item1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:title="Item" />

<item

android:id="@+id/item2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:title="Item" />

<item

android:id="@+id/item3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:title="Item" />

</menu>

**themes.xml**

<resources xmlns:tools="http://schemas.android.com/tools">

<!-- Base application theme. -->

<style name="Base.Theme.OptionMenu" parent="Theme.MaterialComponents.DayNight.DarkActionBar">

<!-- Customize your light theme here. -->

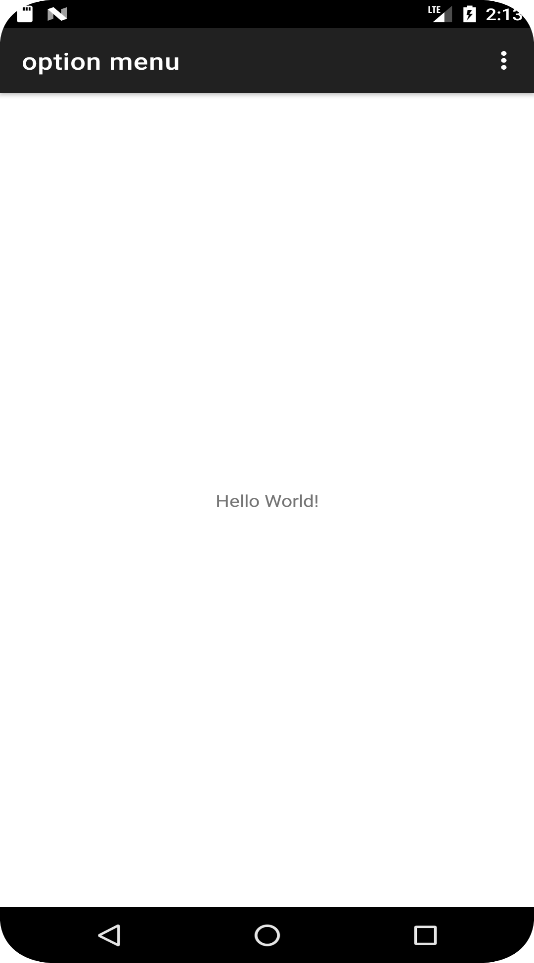
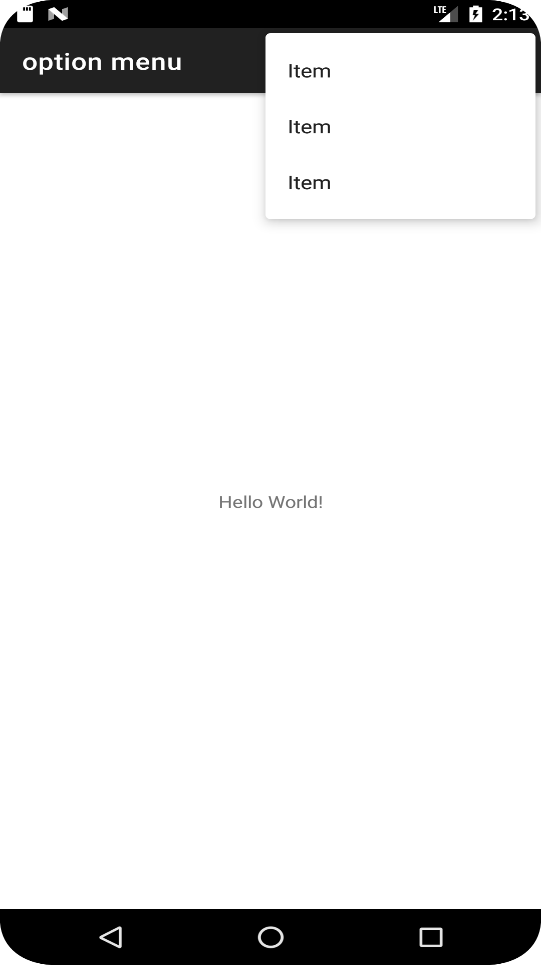
<!-- <item name="colorPrimary">@color/my\_light\_primary</item> -->

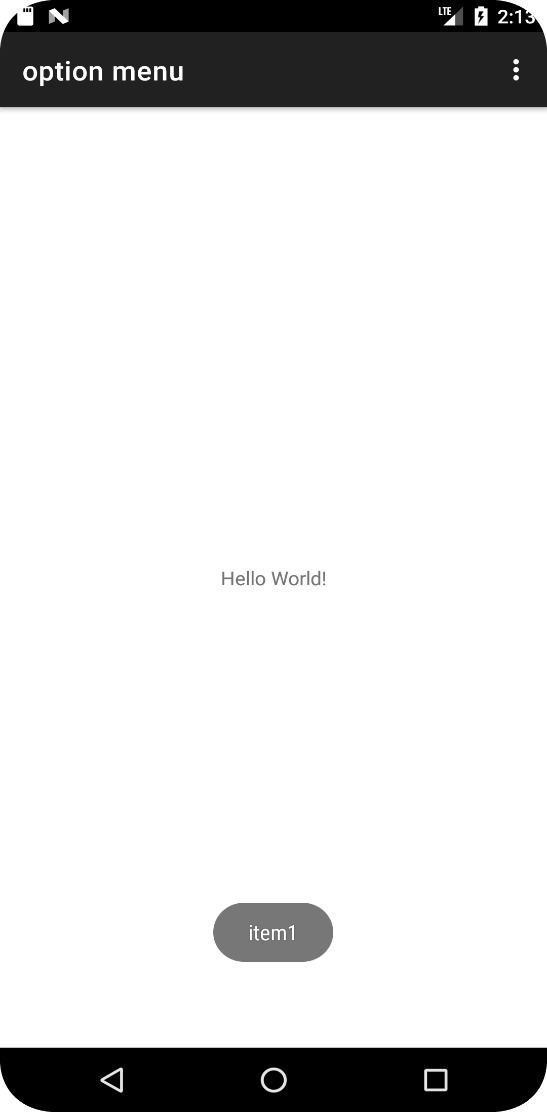
</style>

<style name="Theme.OptionMenu" parent="Base.Theme.OptionMenu" />

</resources>

**OUTPUT**

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**Program No:12**

**Date:7/11/2024**

**DATABASE CREATION**

**AIM**

Create database using SQLite and perform insert ,select,upsate and delete on SQLite database.

**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">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="EMPLOYEE DETAILS"

android:textAlignment="center"

android:textColor="@color/design\_default\_color\_error" />

<EditText

android:id="@+id/ET\_id"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="ID"

android:inputType="textPersonName" />

<EditText

android:id="@+id/ET\_name"

android:layout\_width="match\_parent"

android:layout\_height="57dp"

android:ems="10"

android:hint="Name"

android:inputType="textPersonName" />

<EditText

android:id="@+id/ET\_place"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Place"

android:inputType="textPersonName" />

<Button

android:id="@+id/B\_SUBMIT"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Insert" />

<Button

android:id="@+id/B\_sel"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Select" />

<Button

android:id="@+id/B\_update"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="UPDATE" />

<Button

android:id="@+id/B\_delete"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="DELETE" />

<Button

android:id="@+id/B\_clear"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="CLEAR" />

<TextView

android:id="@+id/T\_id"

android:layout\_width="match\_parent"

android:layout\_height="46dp" />

<TextView

android:id="@+id/T\_name"

android:layout\_width="match\_parent"

android:layout\_height="55dp" />

<TextView

android:id="@+id/T\_place"

android:layout\_width="match\_parent"

android:layout\_height="47dp" />

</LinearLayout>

</LinearLayout>

**MainActivity.java**

package com.example.employee;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

EditText ename,eplace,eid;

Button bsubmit,bsel,bup,bdel,bclr;

TextView tid,tname,tplace;

SQLiteDatabase db;

AlertDialog.Builder builder;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

ename =(EditText) findViewById(R.id.ET\_name);

eplace =(EditText) findViewById(R.id.ET\_place);

eid =(EditText)findViewById(R.id.ET\_id);

bsubmit =(Button) findViewById(R.id.B\_SUBMIT);

bsel =(Button) findViewById(R.id.B\_sel);

tid =(TextView) findViewById(R.id.T\_id);

tname =(TextView) findViewById(R.id.T\_name);

tplace =(TextView) findViewById(R.id.T\_place);

bup =(Button) findViewById(R.id.B\_update);

bdel =(Button)findViewById(R.id.B\_delete);

bclr =(Button)findViewById(R.id.B\_clear);

builder = new AlertDialog.Builder(this);

try{

db = openOrCreateDatabase("empdb", MODE\_PRIVATE, null);

db.execSQL("Create table employee(id integer primary key,name Text,place Text)");

Toast.makeText(getApplicationContext(), "Created Successfully", Toast.LENGTH\_SHORT).show();

}

catch(Exception e)

{

}

bsubmit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

try {

db.execSQL("Insert into employee values ("+eid.getText().toString()+",'"+ename.getText().toString()+"','"+eplace.getText().toString()+"')");

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

}

catch (Exception e) {

Toast.makeText(getApplicationContext(), "Error in Data", Toast.LENGTH\_SHORT).show();

}

}

});

bclr.callOnClick();

bsel.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Cursor c = db.rawQuery("select \* from employee ", null);

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

Toast.makeText(getApplicationContext(), "No such record", Toast.LENGTH\_SHORT).show();

} else {

/\* c.moveToFirst();

tid.setText(c.getString(0));

tname.setText(c.getString(1));

tplace.setText(c.getString(2));

}\*/

StringBuffer b = new StringBuffer();

while (c.moveToNext()) {

b.append("Id:" + c.getString(0) + "\n");

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

b.append("Place:" + c.getString(2) + "\n");

// on below line we are creating a new array list.

}

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

builder.setMessage(b.toString());

AlertDialog alert = builder.create();

alert.setTitle("Employee Data");

alert.show();

}

}

});

bup.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

db.execSQL("update employee set name='"+ename.getText().toString()+"',place='"+eplace.getText().toString()+"' where id="+eid.getText().toString()+"");

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

}

});

bdel.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

db.execSQL("delete from employee where id="+eid.getText().toString());

Toast.makeText(getApplicationContext(), "Item Deleted", Toast.LENGTH\_SHORT).show();

}

});

bclr.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

eid.setText("");

ename.setText("");

eplace.setText("");

}

});

bclr.callOnClick();

}}

**OUTPUT**

