**Program No:13** **10.11.2022**

Develop android program to implement SQLite programming.

**Program Code:**

**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:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="24dp"  
 android:text="Name"  
 android:id="@+id/t1"/>  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter the Name"  
 android:textSize="24dp"  
 android:id="@+id/et1"  
 android:layout\_below="@+id/t1"/>  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="24dp"  
 android:id="@+id/t2"  
 android:text="Contact No."  
 android:layout\_below="@+id/et1"/>  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter the Contact No."  
 android:textSize="24dp"  
 android:id="@+id/et2"  
 android:layout\_below="@+id/t2"/>  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="24dp"  
 android:text="DOB"  
 android:id="@+id/t3"  
 android:layout\_below="@+id/et2"/>  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter the DOB"  
 android:textSize="24dp"  
 android:id="@+id/et3"  
 android:layout\_below="@+id/t3"/>  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="INSERT"  
 android:id="@+id/btn1"  
 android:textSize="24dp"  
 android:layout\_marginLeft="10dp"  
 android:layout\_below="@+id/et3"/>  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="UPDATE"  
 android:id="@+id/btn2"  
 android:textSize="24dp"  
 android:layout\_marginLeft="10dp"  
 android:layout\_below="@+id/btn1"/>  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text=" DELETE "  
 android:id="@+id/btn3"  
 android:textSize="24dp"  
 android:layout\_marginLeft="10dp"  
 android:layout\_below="@+id/btn2"/>  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="VIEW"  
 android:id="@+id/btn4"  
 android:textSize="24dp"  
 android:layout\_marginLeft="10dp"  
 android:layout\_below="@+id/btn3"/>  
  
</RelativeLayout>

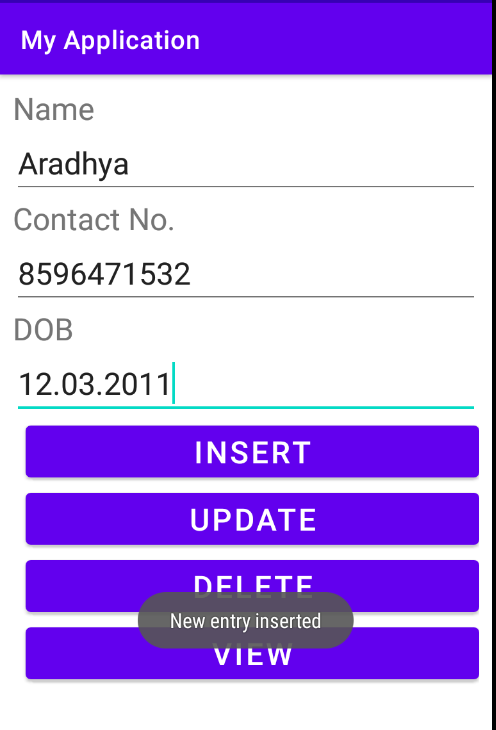
**DBHelper.java:**

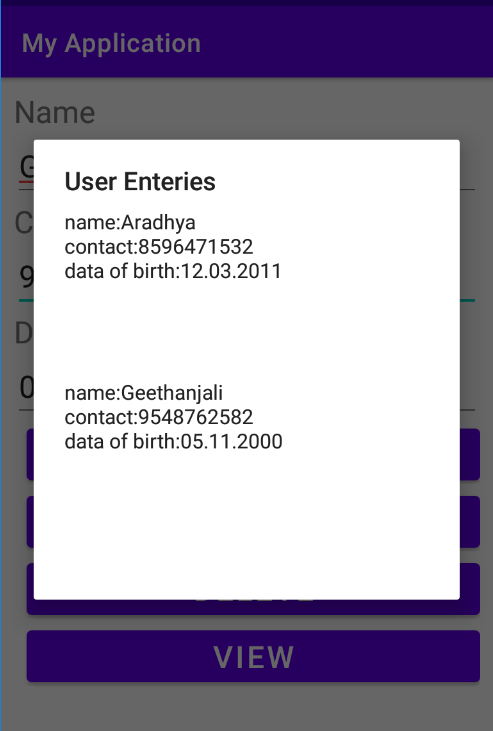
package com.example.myapplication13;  
import android.content.ContentValues;  
import android.content.Context;  
import android.database.Cursor;  
import android.database.sqlite.SQLiteDatabase;  
import android.database.sqlite.SQLiteOpenHelper;  
  
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
  
public class DBHelper extends SQLiteOpenHelper {  
 public DBHelper(@Nullable 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 i1) {  
 DB.execSQL("drop Table if exists userdetails");  
 }  
  
 public Boolean insertData(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 updateData(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;  
 }  
}

**MainActivity.java:**

package com.example.myapplication13;  
  
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 et1,et2,et3;  
 Button Insert,Update,Delete,View;  
 DBHelper db;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 et1 = findViewById(R.id.*et1*);  
 et2 = findViewById(R.id.*et2*);  
 et3 = findViewById(R.id.*et3*);  
  
 Insert = findViewById(R.id.*btn1*);  
 Update = findViewById(R.id.*btn2*);  
 Delete = findViewById(R.id.*btn3*);  
 View = findViewById(R.id.*btn4*);  
 db = new DBHelper(this);  
  
  
 Insert.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(android.view.View view) {  
 String name = et1.getText().toString();  
 String contact = et2.getText().toString();  
 String dob = et3.getText().toString();  
  
 boolean checkInsertData = db.insertData(name, contact, dob);  
 if (checkInsertData == true)  
 Toast.*makeText*(MainActivity.this, "New entry inserted", Toast.*LENGTH\_LONG*).show();  
 else  
 Toast.*makeText*(MainActivity.this, "New entry Not inserted", Toast.*LENGTH\_LONG*).show();  
  
 }  
 });  
  
 Update.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(android.view.View view) {  
 String name= et1.getText().toString();  
 String contact=et2.getText().toString();  
 String dob= et3.getText().toString();  
  
 boolean checkUpdateData= db.updateData(name,contact,dob);  
 if(checkUpdateData==true)  
 Toast.*makeText*(MainActivity.this,"Entry updated",Toast.*LENGTH\_LONG*).show();  
 else  
 Toast.*makeText*(MainActivity.this,"Entry Not Updated",Toast.*LENGTH\_LONG*).show();  
  
 }  
 });  
  
 Delete.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(android.view.View view) {  
 String name= et1.getText().toString();  
  
  
 boolean checkDeleteData= db.deleteData(name);  
 if(checkDeleteData==true)  
 Toast.*makeText*(MainActivity.this,"Entry deleted",Toast.*LENGTH\_LONG*).show();  
 else  
 Toast.*makeText*(MainActivity.this,"Entry Not deleted",Toast.*LENGTH\_LONG*).show();  
  
 }  
 });  
  
  
 View.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(android.view.View view) {  
 Cursor res=db.getData();  
 if (res.getCount() == 0) {  
 Toast.*makeText*(MainActivity.this, "No entry exists", Toast.*LENGTH\_LONG*).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("data of birth:" + res.getString(2) + "\n\n\n\n\n");  
 }  
 AlertDialog.Builder builder=new AlertDialog.Builder(MainActivity.this);  
 builder.setCancelable(true);  
 builder.setTitle("User Enteries");  
 builder.setMessage(buffer.toString());  
 builder.show();  
 }  
  
 });  
 }  
}

**Output**

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**Program No:14** **11.11.2022**

**Program Code:**

**activity\_main.xml:**

*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/tv1"/>  
  
</RelativeLayout>

**MainActivity.java:**

package com.example.myapplication14;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.widget.TextView;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 TextView tv1;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 try{  
 tv1.setText("WELCOME");  
 }  
 catch (Exception e){  
 Toast.*makeText*(this,e.getMessage(),Toast.*LENGTH\_LONG*).show();  
 }  
 }  
}

**Output**



**Program No:13** **11.11.2022**

**Program Code:**

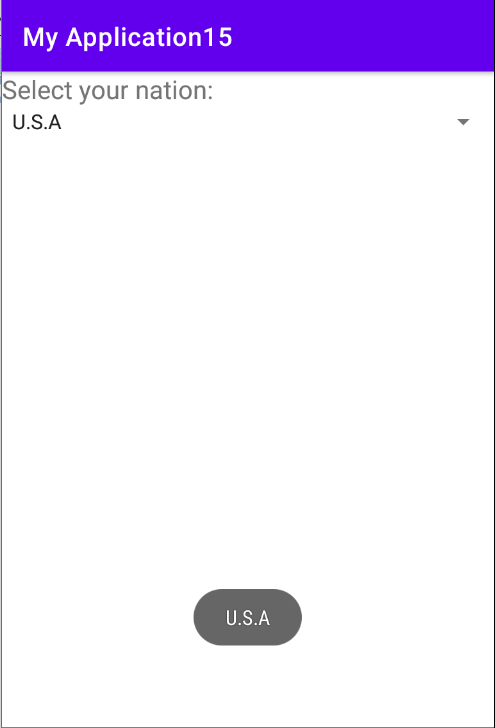
**activity\_main.xml:**

*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Select your nation:"  
 android:id="@+id/t1"  
 android:textSize="20dp" />  
  
 <Spinner  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/t1"  
 android:id="@+id/spinner"/>  
  
</RelativeLayout>

**MainActivity.java:**

package com.example.myapplication15;  
  
import androidx.annotation.NonNull;  
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{  
 String[] country={"India","China","U.S.A","Russia","Other"};  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 Spinner spin=(Spinner)findViewById(R.id.*spinner*);  
 spin.setOnItemSelectedListener(this);  
 ArrayAdapter ar=new ArrayAdapter(this, android.R.layout.*simple\_spinner\_item*,country);  
 ar.setDropDownViewResource(android.R.layout.*simple\_spinner\_dropdown\_item*);  
 spin.setAdapter(ar);  
 }  
 @Override  
 public void onItemSelected(AdapterView arg0, View arg1, int position, long id){  
 Toast.*makeText*(getApplicationContext(),country[position] ,  
 Toast.*LENGTH\_LONG*).show();  
 }  
  
 @Override  
 public void onNothingSelected(AdapterView<?> adapterView){  
  
 }  
}

**Output**



**Program No:16** **15.11.2022**

**Program Code:**

**activity\_main.xml:**

<androidx.drawerlayout.widget.DrawerLayout  
 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/my\_drawer\_layout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"  
 tools:ignore="HardcodedText">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="128dp"  
 android:gravity="center"  
 android:text="Welcome to Galaxy"  
 android:textSize="18sp" />  
 </LinearLayout>  
  
 <com.google.android.material.navigation.NavigationView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="match\_parent"  
 android:layout\_gravity="start"  
 app:menu="@menu/menu" />  
  
</androidx.drawerlayout.widget.DrawerLayout>

**menu.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="My Account"/>  
 <item  
 android:id="@+id/item2"  
 android:title="Settings"/>  
 <item  
 android:id="@+id/item3"  
 android:title="Logout"/>  
  
</menu>

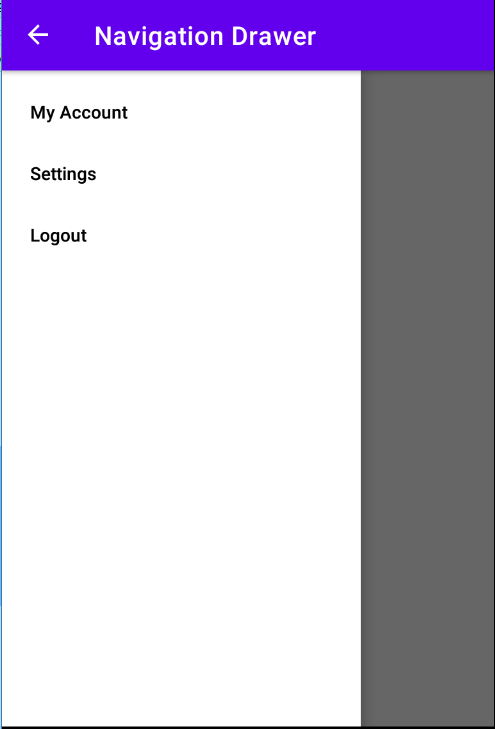
**strings.xml:**

<resources>  
 <string name="app\_name">Navigation Drawer</string>  
 *<!-- to toggle the open close button of the navigation drawer -->* <string name="nav\_open">Open</string>  
 <string name="nav\_close">Close</string>  
</resources>

**MainActivity.java:**

package com.example.myapplication16;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.ActionBarDrawerToggle;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.drawerlayout.widget.DrawerLayout;  
  
import android.os.Bundle;  
import android.view.MenuItem;  
  
public class MainActivity extends AppCompatActivity {  
 public DrawerLayout drawerLayout;  
 public ActionBarDrawerToggle actionBarDrawerToggle;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 drawerLayout = findViewById(R.id.*my\_drawer\_layout*);  
 actionBarDrawerToggle = new ActionBarDrawerToggle(this, drawerLayout, R.string.*nav\_open*, R.string.*nav\_close*);  
 getSupportActionBar().setDisplayHomeAsUpEnabled(true);  
 }  
 @Override  
 public boolean onOptionsItemSelected(@NonNull MenuItem item){  
 if (actionBarDrawerToggle.onOptionsItemSelected(item)){  
 return true;  
 }  
 return super.onOptionsItemSelected(item);  
  
 }  
}

**Output**



dependencies **{** implementation 'androidx.appcompat:appcompat:1.2.0'  
 implementation 'com.google.android.material:material:1.3.0-alpha03'  
 implementation 'androidx.constraintlayout:constraintlayout:1.1.3'  
 testImplementation 'junit:junit:4.+'  
 androidTestImplementation 'androidx.test.ext:junit:1.1.2'  
 androidTestImplementation 'androidx.test.espresso:espresso-core:3.3.0'  
**}**

**Program No:17** **15.11.2022**

**Program Code:**

**activity\_main.xml:**

package com.example.myapplication17;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Context;  
import android.graphics.Canvas;  
import android.graphics.Color;  
import android.graphics.Paint;  
import android.os.Bundle;  
import android.view.View;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(new myview(this));  
 }  
 private class myview extends View  
 {  
 public myview(Context context){  
 super(context);  
 }  
 @Override  
 protected void onDraw(Canvas canvas){  
 super.onDraw(canvas);  
 Paint paint=new Paint();  
 paint.setTextSize(40);  
 paint.setColor(Color.*BLUE*);  
 canvas.drawText("Circle",55,30,paint);  
 paint.setColor(Color.*RED*);  
 canvas.drawCircle(100,150,100,paint);  
 paint.setColor(Color.*BLUE*);  
 canvas.drawText("Rectangle",255,30,paint);  
 paint.setColor(Color.*YELLOW*);  
 canvas.drawRect(250,50,400,350,paint);  
 paint.setColor(Color.*BLUE*);  
 canvas.drawText("Square",55,430,paint);  
 paint.setColor(Color.*GREEN*);  
 canvas.drawRect(50,450,150,550,paint);  
 paint.setColor(Color.*BLUE*);  
 canvas.drawText("Line",255,430,paint);  
 paint.setColor(Color.*BLACK*);  
 canvas.drawLine(250,500,550,500,paint);  
  
  
 }  
 }  
}