University Students Coding Club needs an app for checking students' eligibility for the programming contest, students should enter their details in the Main Activity to do Registration, Student's: ID No, Name, section no., CGPA, and Programming language for coding. The programming language will be selected from drop down box and section no using radion button. on click of submit button Store the details in the database and notify to the user as "registration successful".

[A]In Activity 2, print the eligibility list and non-eligibility list of the Student's in a fragment: ID No, and name in two separate Text view.

Condition: if the CGPA is greater than 7.

[B] Display the total number of students who have taken Python in the second activity.

```
activity_main.xml:
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <EditText
    android:id="@+id/idnobtn"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:ems="10"
    android:hint="enter id"
    android:inputType="text"
   app:layout constraintStart toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout_constraintBottom_toTopOf="@+id/namebtn"/>
  <EditText
    android:id="@+id/namebtn"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:ems="10"
    android:hint="enter name"
    android:inputType="text"
   app:layout constraintStart toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintTop toBottomOf="@+id/idnobtn"
    app:layout constraintBottom toTopOf="@+id/CGPAbtn"/>
```

```
<EditText
  android:id="@+id/CGPAbtn"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:ems="10"
  android:hint="cgpa score"
  android:inputType="text"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintTop_toBottomOf="@id/namebtn"
  app:layout constraintBottom toTopOf="@id/rgbtn"/>
<RadioGroup
  android:id="@+id/rgbtn"
  android:layout_width="294dp"
  android:layout height="164dp"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/CGPAbtn"
  app:layout constraintBottom toTopOf="@+id/languagesbtn">
  <RadioButton
    android:id="@+id/sec1btn"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="section1" />
  <RadioButton
    android:id="@+id/sec2btn"
    android:layout width="match parent"
    android:layout_height="wrap_content"
    android:text="section2"/>
</RadioGroup>
<Spinner
  android:id="@+id/languagesbtn"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintTop_toBottomOf="@id/rgbtn"
  app:layout_constraintBottom_toTopOf="@id/subbtn"/>
```

```
<Button
    android:id="@+id/subbtn"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="submit"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintEnd toStartOf="@+id/btn2"
    app:layout_constraintTop_toBottomOf="@id/languagesbtn"
    app:layout constraintBottom toBottomOf="parent"/>
  <Button
    android:id="@+id/btn2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Display1"
    app:layout_constraintStart_toEndOf="@+id/subbtn"
    app:layout constraintEnd toStartOf="@+id/disbtn"
    app:layout constraintTop toBottomOf="@id/languagesbtn"
    app:layout_constraintBottom_toBottomOf="parent"/>
  <Button
    android:id="@+id/disbtn"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Display2"
    app:layout_constraintStart_toEndOf="@+id/btn2"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintTop toBottomOf="@id/languagesbtn"
    app:layout constraintBottom toBottomOf="parent"/>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java:
package com.example.forumclubregistration;
import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.NotificationCompat;
import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.content.Intent;
import android.os.Build;
import android.os.Bundle;
import android.view.View;
```

```
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Spinner;
public class MainActivity extends AppCompatActivity {
  EditText idval,nameval,cgpaval;
  RadioGroup rg;
  RadioButton rb;
  Spinner spn;
  Button sub, dis1, dis2;
  String[] lang={"Python","C#","java"};
  String slang;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    idval = findViewById(R.id.idnobtn);
    nameval = findViewById(R.id.namebtn);
    cgpaval = findViewById(R.id.CGPAbtn);
    rg = findViewById(R.id.rgbtn);
    spn = findViewById(R.id.languagesbtn);
    sub = findViewById(R.id.subbtn);
    dis1 = findViewById(R.id.btn2);
    dis2 = findViewById(R.id.disbtn);
    DBH db = new DBH(this, "ForumDB2", null, 1);
    ArrayAdapter adapter = new
ArrayAdapter(this,android.R.layout.simple_spinner_dropdown_item,lang);
    spn.setAdapter(adapter);
    spn.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
      @Override
      public void onItemSelected(AdapterView<?> adapterView, View view, int i, long I) {
        slang = adapterView.getItemAtPosition(i).toString();
      }
      @Override
      public void onNothingSelected(AdapterView<?> adapterView) {
      }
    });
```

```
rg.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {
  @Override
  public void onCheckedChanged(RadioGroup radioGroup, int i) {
    rb = findViewById(i);
  }
});
sub.setOnClickListener(new View.OnClickListener() {
  @RequiresApi(api = Build.VERSION_CODES.O)
  @Override
  public void onClick(View view) {
    String i = idval.getText().toString();
    String n = nameval.getText().toString();
    int c = Integer.parseInt(cgpaval.getText().toString());
    String s = rb.getText().toString();
    db.insertRecord(i,n,c,s,slang);
    String CH_ID = "my_ch";
    String CH_NAME = "My_Channel";
    int imp = NotificationManager.IMPORTANCE HIGH;
    NotificationChannel channel = new NotificationChannel(CH_ID,CH_NAME,imp);
    NotificationManager mngr = (NotificationManager) getSystemService(NOTIFICATION_SERVICE);
    mngr.createNotificationChannel(channel);
    NotificationCompat.Builder builder = new NotificationCompat.Builder(MainActivity.this,CH ID);
    builder.setSmallIcon(R.drawable.ic launcher background);
    builder.setContentTitle("Registration Status");
    builder.setContentText("Registration Successful");
    mngr.notify(100,builder.build());
  }
});
dis1.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View view) {
    String rec = db.displayEligible();
    String rec1 = db.displayNonEligible();
    Intent it = new Intent(MainActivity.this, MainActivity2.class);
    it.putExtra("Records",rec);
    it.putExtra("Records1",rec1);
    startActivity(it);
  }
});
dis2.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View view) {
    int rec = db.displayCount();
    Intent it = new Intent(MainActivity.this, MainActivity2.class);
```

```
it.putExtra("Records",String.valueOf(rec));
        startActivity(it);
      }
    });
 }
}
activity_main2.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=".MainActivity2">
  <androidx.fragment.app.FragmentContainerView
    android:id="@+id/fragmentContainerView"
    android:name="com.example.forumclubregistration.BlankFragment"
    android:layout width="300dp"
    android:layout_height="450dp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity2.java:
package com.example.forumclubregistration;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
public class MainActivity2 extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);
    Intent it1 = getIntent();
```

```
String r = it1.getStringExtra("Records");
    String r1 = it1.getStringExtra("Records1");
    Bundle bundle = new Bundle();
    bundle.putString("Rec",r);
    bundle.putString("Rec1",r1);
    BlankFragment frag = (BlankFragment)
getSupportFragmentManager().findFragmentById(R.id.fragmentContainerView);
    frag.setArguments(bundle);
  }
}
fragment blank.xml:
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".BlankFragment">
  <!-- TODO: Update blank fragment layout -->
  <TextView
    android:id="@+id/Result"
    android:layout width="match parent"
    android:layout_height="250dp"
    android:layout_gravity="top|center_vertical"
    android:textSize="18sp"
    android:textStyle="bold"
    android:textAlignment="center"/>
  <TextView
    android:id="@+id/Result1"
    android:layout_width="match_parent"
    android:layout height="250dp"
    android:layout gravity="bottom|center vertical"
    android:textSize="18sp"
    android:textStyle="bold"
    android:textAlignment="center"/>
</FrameLayout>
BlankFragment.java:
package com.example.forumclubregistration;
```

```
import android.os.Bundle;
import androidx.fragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
* A simple {@link Fragment} subclass.
* Use the {@link BlankFragment#newInstance} factory method to
* create an instance of this fragment.
*/
public class BlankFragment extends Fragment {
  TextView res,res1;
  // TODO: Rename parameter arguments, choose names that match
  // the fragment initialization parameters, e.g. ARG ITEM NUMBER
  private static final String ARG_PARAM1 = "param1";
  private static final String ARG_PARAM2 = "param2";
  // TODO: Rename and change types of parameters
  private String mParam1;
  private String mParam2;
  public BlankFragment() {
    // Required empty public constructor
  }
  * Use this factory method to create a new instance of
  * this fragment using the provided parameters.
  * @param param1 Parameter 1.
  * @param param2 Parameter 2.
  * @return A new instance of fragment BlankFragment.
  */
  // TODO: Rename and change types and number of parameters
  public static BlankFragment newInstance(String param1, String param2) {
    BlankFragment fragment = new BlankFragment();
    Bundle args = new Bundle();
    args.putString(ARG_PARAM1, param1);
    args.putString(ARG PARAM2, param2);
    fragment.setArguments(args);
```

```
return fragment;
  }
  @Override
  public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    if (getArguments() != null) {
      mParam1 = getArguments().getString(ARG_PARAM1);
      mParam2 = getArguments().getString(ARG_PARAM2);
    }
  }
  @Override
  public View onCreateView(LayoutInflater inflater, ViewGroup container,
                Bundle savedInstanceState) {
    // Inflate the layout for this fragment
    View v = inflater.inflate(R.layout.fragment_blank, container, false);
    res = v.findViewById(R.id.Result);
    res1 = v.findViewById(R.id.Result1);
    Bundle args = getArguments();
    String m = args.getString("Rec");
    String n = args.getString("Rec1");
    res.setText(m);
    res1.setText(n);
    return v;
  }
}
DBH.java:
package com.example.forumclubregistration;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import androidx.annotation.Nullable;
public class DBH extends SQLiteOpenHelper {
  public DBH(@Nullable Context context, @Nullable String name, @Nullable
SQLiteDatabase.CursorFactory factory, int version) {
    super(context, name, factory, version);
  }
```

```
@Override
  public void onCreate(SQLiteDatabase sqLiteDatabase) {
    sqLiteDatabase.execSQL("create table reges(id varchar(20),name varchar(20),cgpa integer,sec
varchar(10),lang varchar(20))");
  }
  @Override
  public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {
  public void insertRecord(String i,String n,int c,String s,String l){
    SQLiteDatabase db = this.getWritableDatabase();
    db.execSQL("insert into reges values(""+i+"",""+n+"",""+c+"",""+s+"",""+l+"")");
    db.close();
  }
  public String displayEligible(){
    String tdata = "";
    SQLiteDatabase db = this.getReadableDatabase();
    Cursor cr = db.rawQuery("select id,name from reges where cgpa > 7",null);
    while (cr.moveToNext()){
      String i = cr.getString(0);
      String n = cr.getString(1);
      tdata+=i+"\t"+n+"\n";
    }
    db.close();
    return tdata;
  public String displayNonEligible(){
    String tdata = "";
    SQLiteDatabase db = this.getReadableDatabase();
    Cursor cr = db.rawQuery("select id,name from reges where cgpa <= 7",null);
    while (cr.moveToNext()){
      String i = cr.getString(0);
      String n = cr.getString(1);
      tdata+=i+"\t"+n+"\n";
    }
    db.close();
    return tdata;
  public int displayCount(){
    int ct = 0;
    SQLiteDatabase db = this.getReadableDatabase();
    Cursor cr = db.rawQuery("select * from reges where lang = ?", new String[]{"Python"});
    while (cr.moveToNext())
```

```
ct++;
    db.close();
    return ct;
}
```