#### **Pratical Exam**

Q=1. Create a database named "subjects".

Create a table in it named "subject\_info".

Table structure will be: subject\_info (sub\_id, sub\_title, sub\_desc).

You can insert any subjects of M.Sc(IT)/M.Sc(ICT) like Android,

Advanced .NET, JWD etc.

Note: Description can be anything relevant to the subject.

Minimum 5 entries should be added to the database.

- 2. Create an activity for inserting subjects and save the entries in the above mentioned table.
- 3. Create a Recycler View and display all the subjects in it.

Use custom adapter.

4. Clicking on the subject should redirect to an activity where the subject name and description of the subject is shown.

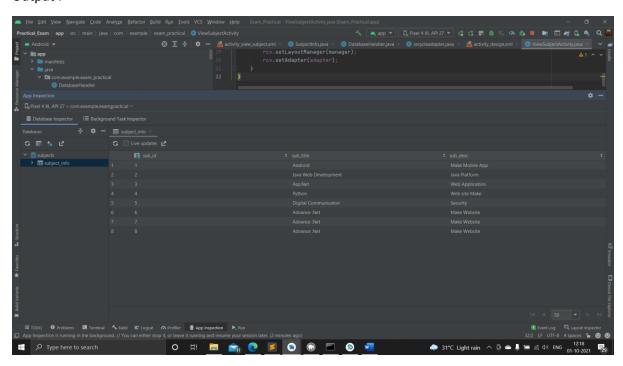
## DatabaseHalper.java

```
package com.example.exam_practical;
import android.content.ContentValues;
import android.database.Cursor;
import android.database.Sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import androidx.annotation.Nullable;
import java.util.ArrayList;
import java.util.List;

public class DatabaseHandler extends SQLiteOpenHelper
{
    private static final String DATABASE_NAME = "subjects";
    private static final String TABLE_NAME = "subject_info";
    private static final String sub_id = "sub_id";
    private static final String sub_title = "sub_title";
    private static final String sub_desc = "sub_desc";

    public DatabaseHandler(Context context)
}
```

```
public void onCreate(SQLiteDatabase DB)
   DB.execSQL(CREATE SUBJECTINFO TABLE);
public void onUpgrade(SQLiteDatabase DB, int i, int i1)
    DB.execSQL("DROP TABLE IF EXISTS " + TABLE NAME);
   onCreate(DB);
void AddSubject(SubjectInfo si)
   ContentValues cv = new ContentValues();
           si.setSub desc(cr.getString(2));
           sublist.add(si);
```



# SubjectInfo.java

```
public SubjectInfo()
public SubjectInfo(String sub title, String sub desc)
```

```
public SubjectInfo(String sub title, String sub desc)
public int getSub id()
public String getSub_desc()
```

# activity\_main.xml

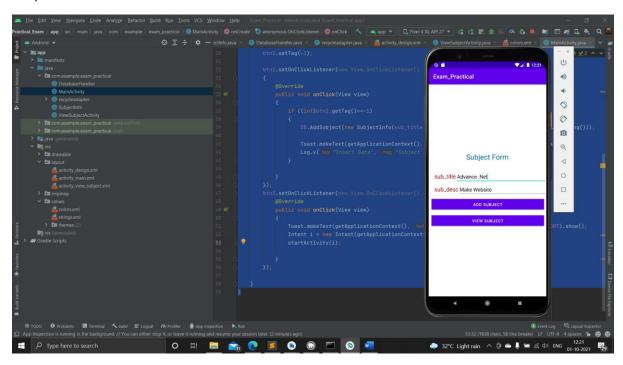
```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   <LinearLayout
        <LinearLayout
            <TextView
                android:textSize="20dp"
```

```
</LinearLayout>
<LinearLayout</pre>
    <EditText
</LinearLayout>
<LinearLayout
    android:orientation="horizontal">
```

```
</LinearLayout>
</LinearLayout>
```

#### MainActivity.java

```
protected void onCreate(Bundle savedInstanceState)
SubjectInfo(sub title.getText().toString(),
```



# recycleadapter.java

```
package com.example.exam_practical;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;
import java.util.List;

public class recycleadapter extends
RecyclerView.Adapter<recycleadapter.MyviewHolder>
{
    Context context:
```

```
public recycleadapter(Context context, int resource, List<SubjectInfo>
LayoutInflater.from(parent.getContext()).inflate(resource,parent,false);
        public MyviewHolder(@NonNull View itemView)
```

## activity view subject.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=".ViewSubjectActivity"
    android:orientation="vertical">
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/rcv"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>
</LinearLayout>
```

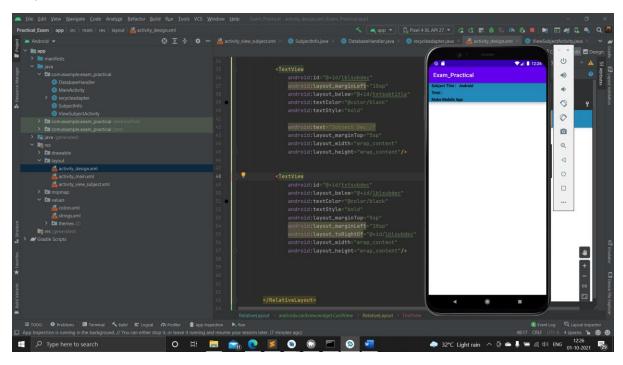
#### ViewSubjectActivity.java

```
package com.example.exam_practical;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
import android.os.Bundle;
import java.util.ArrayList;
import java.util.List;

public class ViewSubjectActivity extends AppCompatActivity
{
    RecyclerView rcv;
    ListKSubjectInfo> si;
    recycleadapter adapter;
    DatabaseHandler DB = new DatabaseHandler(this);

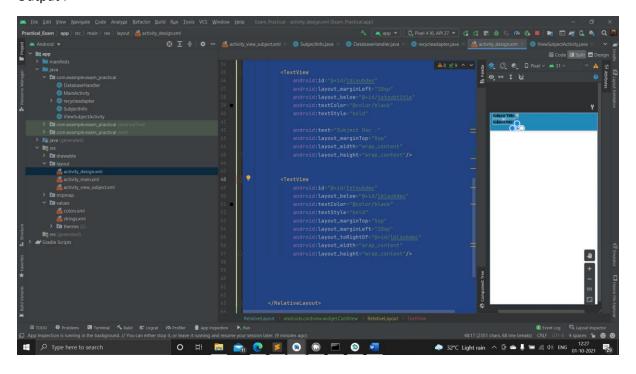
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_view_subject);
        rcv = findViewById(R.id.rcv);
        si = new ArrayList<SubjectInfo>();
        si.addAll(DB.getSubject());
        adapter = new recycleadapter(this,R.layout.activity_design,si);
        LinearLayoutManager manager = new

LinearLayoutManager(this,LinearLayoutManager.VERTICAL,false);
        rcv.setLayoutManager(manager);
        rcv.setAdapter(adapter);
}
```

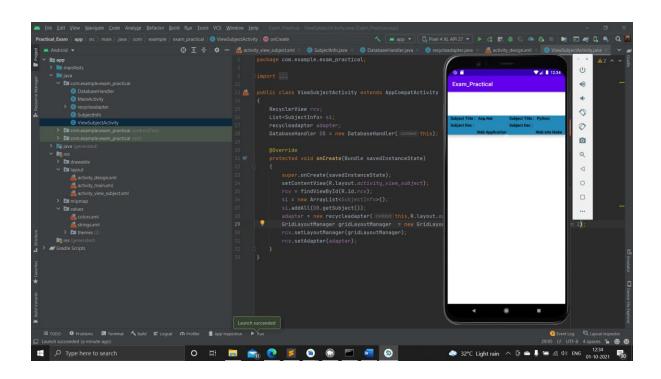


#### activity\_design.xml

```
android:textColor="@color/black"
</RelativeLayout>
```



## Output View Subject:



## Output Insert Data:

