PRACTICAL NO: 04

AIM: Create an Android app with a RadioGroup for lesson ratings, checkboxes for feedback, and a Submit button to display the selected rating and checkbox states in a TextView, with validation for rating selection.

```
<LinearLayout
  android:orientation="vertical"
  android:layout width="match parent"
      android:layout width="match parent"
      android:layout height="wrap content"
      android:textSize="30dp"
      android:gravity="center"/>
  <TextView
      android:id="@+id/textView2"
      android:layout width="match parent"
      android:layout_height="wrap_content" android:text="Rate This Lesson"
      android:gravity="center"
      android:textSize="20dp"
      android:layout width="match parent"
      android:layout height="wrap content" android:orientation="horizontal"
      android:gravity="center"
      android:paddingTop="20dp">
          android:id="@+id/r1"
          android:layout height="wrap content"
          android:text="EXCELLENT"/>
          android:layout width="wrap content"
          android:layout height="wrap content"
          android:text="GOOD"/>
          android:layout width="wrap content"
          android:layout height="wrap content" android:text="OKAY"/>
          android:layout width="wrap content"
```

```
android:layout_height="wrap_content"_android:text="POOR"/>
</RadioGroup>
<TextView
    android:id="@+id/textView3"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:textSize="25dp"
    android:paddingTop="20dp"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="I Really Enjoyed This Lesson"
<CheckBox
    android:id="@+id/checkBox3"
    android:layout width="wrap content"
    android:layout height="wrap content" android:layout marginLeft="40dp"
    android:textSize="19dp"
<CheckBox
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginLeft="40dp"
    android:textSize="19dp"
    android:text="I would Like To Here More From You" />
<CheckBox
    android:id="@+id/checkBox5"
    android:layout width="wrap content"
    android:layout height="wrap content" android:layout marginLeft="40dp"
    android:textSize="19dp"
    android:text="I am Satisfied With The Lessons" />
    android:layout width="wrap content"
    android:layout height="wrap content" android:text="Submit"
    android:layout gravity="center"/>
<TextView
    android:layout width="match parent"
    android:layout height="wrap content" android:textSize="20dp"
    android:paddingTop="30dp" />
```

```
package com.example.practice;
import android.os.Bundle;
```

```
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       RadioGroup rg = findViewById(R.id.radioGroup);
       CheckBox c1 = findViewById(R.id.checkBox2);
       CheckBox c3 = findViewById(R.id.checkBox4);
      CheckBox c4 = findViewById(R.id.checkBox5);
       Button btn = findViewById(R.id.button);
       TextView t = findViewById(R.id.textView4);
      btn.setOnClickListener(new View.OnClickListener() {
                   Toast.makeText (MainActivity.this, "Rate us",
Toast.LENGTH SHORT).show();
findViewById(selectedId);
                   String rbText = selectedRadioButton.getText().toString() +
                       cText.append(c1.getText().toString()).append("\n");
                       cText.append(c2.getText().toString()).append("\n");
                   if (c3.isChecked()) {
                       cText.append(c3.getText().toString()).append("\n");
                       cText.append(c4.getText().toString()).append("\n");
```

```
}
}
}
```

Practical No: 5A Aim: Write an android program to navigate from one screen to another.

Activity main.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"
    android:gravity="center">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:text="Welcome to first screen"
        android:textSize="24sp"
        android:textColor="#F90234"/>
        <Button
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="8dp"/>
        </LinearLayout>
```

Activity navigate.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  android:layout width="match parent"
  android:layout height="match parent"
  android:gravity="center">
  <TextView
       android:id="@+id/txtMsg1"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="Welcome to second screen"
       android:textSize="24sp"
       android:textColor="#F90234"/>
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="GO BACK"
       android:layout marginTop="8dp"/>
</LinearLayout>
```

ActivityMain.java

```
package com.example.practice;
import android.content.Intent;
```

NavigateActivity.java

```
package com.example.practice;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;

public class NavigateActivity extends AppCompatActivity {
   Button btn; // Declare button here

   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_navigate);

        btn = findViewById(R.id.btnBack); // Initialize button after
setContentView()
```

Practical: 5B

Aim: Write an Android program to demonstrate the Options Menu.

res/menu/options.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@+id/search"
        android:title="Search" />
    <item android:id="@+id/upload"
        android:title="Upload" />
        <item android:id="@+id/copy"
        android:title="Copy" />
        <item android:id="@+id/print"
        android:title="Print" />
        <item android:id="@+id/share"
        android:title="Share" />
        <item
        android:title="BookMark"
        android:title="BookMark" />
</menu>
```

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:orientation="vertical"
    android:padding="16dp">
    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="This is a Prac 5 B"
        android:textSize="18sp" />
</LinearLayout>
```

MainActivity.java

```
package com.example.practice;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
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) {
        getMenuInflater().inflate(R.menu.options, menu);
}
```

```
AIM: Create an Android app to create a new 'emp' table in SQLite with
fields: name, age, and designation. Insert records into it and display them
on the screen.
androidmanifest.xml
<uses-permission android:name="android.permission.WRITE EXTERNAL STORAGE" />
       ## activity main.xml
       <LinearLayout
       android:gravity="center"
       android:layout width="match parent"
       android:layout height="match parent">
       <EditText
       android:id="@+id/edtName"
       android:layout width="match parent"
       android:layout height="wrap content"
       android:layout marginHorizontal="34dp"
       android:inputType="text"
       <EditText
       android:id="@+id/edtAge"
       android:layout width="match parent"
       android:layout height="wrap content"
       android:layout marginHorizontal="34dp"
       <EditText
       android:id="@+id/edtDesignation"
       android:layout width="match parent"
       android:layout height="wrap content"
       android:layout marginHorizontal="34dp"
       android:inputType="text"
       android:id="@+id/btnAdd"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="Add" />
       android:id="@+id/btnShow"
```

```
android:layout width="wrap content"
       android:layout_height="wrap_content"
       <TextView
       android:id="@+id/result"
       android:layout width="match parent"
       android:layout height="wrap content" />
       <TableLayout
       android:id="@+id/tableLayout"
       android:layout width="match parent"
       android:layout height="wrap content"
       android:orientation="vertical">
android:layout width="wrap content" android:layout height="wrap content"
android:paddingEnd="56dp" />
android:layout width="wrap content" android:layout height="wrap content"
android:paddingEnd="36dp" />
android:layout width="wrap content" android:layout height="wrap content" />
      </TableRow>
      </TableLayout>
      </LinearLayout>
       ## MainActivity.java
       package com.example.practical9;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.view.View;
import android.widget.EditText;
Import android.widget.TableLayout;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
   EditText nameEdit, ageEdit, designationEdit;
   TextView resultView, headName, headAge, headDesignation;
```

```
Button addBtn, showBtn;
   TableLayout tableLayout;
   DBHelper help = new DBHelper(this);
   @Override
   protected void onCreate(Bundle savedInstanceState) {
       setContentView(R.layout.activity main);
       nameEdit = findViewById(R.id.edtName);
       ageEdit = findViewById(R.id.edtAge);
       designationEdit = findViewById(R.id.edtDesignation);
       addBtn = findViewById(R.id.btnAdd);
       showBtn = findViewById(R.id.btnShow);
       resultView = findViewById(R.id.result);
       headName = findViewById(R.id.headName);
       headAge = findViewById(R.id.headAge);
       headDesignation = findViewById(R.id.headDesignation);
       tableLayout = findViewById(R.id.tableLayout);
       addBtn.setOnClickListener(new View.OnClickListener() {
               String name = nameEdit.getText().toString().trim();
               String ageS = ageEdit.getText().toString().trim();
               String designation =
designationEdit.getText().toString().trim();
               if (!name.isEmpty() && !ageS.isEmpty()) {
                       int age = Integer.parseInt(ageS);
                       SQLiteDatabase db = help.getWritableDatabase();
                       ContentValues cv = new ContentValues();
                       cv.put("name", name);
                       cv.put("designation", designation);
                           ageEdit.setText("");
                           designationEdit.setText("");
                           Toast.makeText (MainActivity.this, "Record Added!",
Toast.LENGTH SHORT).show();
                           Toast.makeText(MainActivity.this, "Error Adding
Record", Toast.LENGTH SHORT).show();
                       db.close();
                   } catch (NumberFormatException e) {
Toast.LENGTH SHORT).show();
```

```
fields", Toast.LENGTH SHORT).show();
           tableLayout.removeViews(1, Math.max(0, tableLayout.getChildCount()
           SQLiteDatabase db = help.getReadableDatabase();
           Cursor cursor = db.rawQuery("SELECT * FROM emp", null);
                   String name = cursor.getString(1);
                   String designation = cursor.getString(3);
                   TextView nameTextView = new TextView(this);
                   nameTextView.setText(name);
                   TextView ageTextView = new TextView(this);
                   designationTextView.setText(designation);
                   tableRow.addView(nameTextView);
                   tableRow.addView(ageTextView);
                   tableLayout.addView(tableRow);
           cursor.close();
           db.close();
       ## DBHelper.java
package com.example.practical9;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
public class DBHelper extends SQLiteOpenHelper {
```

```
static int version = 4;

public DBHelper(Context context) {
        super(context, dbname, null, version);
}

@Override
public void onCreate(SQLiteDatabase db) {
        String query = "CREATE TABLE emp(id INTEGER PRIMARY KEY AUTOINCREMENT,
name TEXT, age INTEGER, designation TEXT)";
        db.execSQL(query);
}

@Override
public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
        db.execSQL("DROP TABLE IF EXISTS emp");
        onCreate(db);
}
```