

EXPERIMENT NO: 08

AIM: Develop an application that uses ArrayAdapter with ListView.

Procedure:***MainActivity.java***

```
package com.example.s3mca55;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
```

```
import android.content.SharedPreferences;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.ListView;
```

```
import android.widget.AdapterView;
```

```
import android.widget.ArrayAdapter;
```

```
import android.widget.TextView;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity implements  
AdapterView.OnItemClickListener{
```

```
    ListView lview;
```

```
    String [] days= { "Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday"};
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        lview = findViewById(R.id.listview);
```

```

        ArrayAdapter<String> adapter = new ArrayAdapter<String>(this,
            androidx.appcompat.R.layout.support_simple_spinner_dropdown_item, days);
        lview.setAdapter(adapter);
        lview.setOnItemClickListener(this);
    }

    @Override
    public void onItemClick(AdapterView adapterView, View view, int position, long id){
        TextView temp = (TextView) view;
        Toast.makeText(this, "You Clicked "+temp.getText()+" at
"+position, Toast.LENGTH_LONG).show();
    }
}

```

activity_main.xml

```

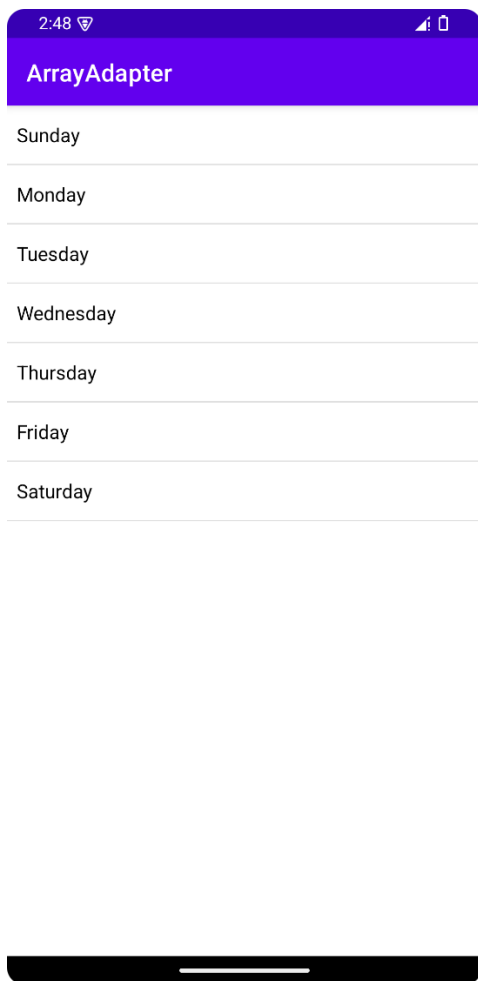
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <ListView
        android:id="@+id/listview"
        android:layout_width="400dp"
        android:layout_height="400dp"
        tools:layout_editor_absoluteX="16dp"
        tools:layout_editor_absoluteY="-2dp"
        tools:ignore="MissingConstraints" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

OUTPUT:



RESULT:

The program was executed successfully and the output was verified.

EXPERIMENT NO: 09

AIM: Implement Options Menu to navigate to activities.

Procedure:***MainActivity.java***

```
package com.example.s3mca55;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.ListView;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.TextView;
import android.widget.Toast;
import androidx.annotation.NonNull;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;

public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public boolean onCreateOptionsMenu(Menu menu){
```

```

MenuInflater inflater = getMenuInflater();
inflater.inflate(R.menu.menu_main, menu);
return super.onCreateOptionsMenu(menu);
}

```

@Override

```

public boolean onOptionsItemSelected(@NonNull MenuItem item){
    switch(item.getItemId()){
        case R.id.settings:
            Intent intent = new Intent(this,settingPage.class);
            startActivity(intent);
            break;
        case R.id.about:
            Toast.makeText(this,"You Clicked about option!!",Toast.LENGTH_SHORT).show();
            break;
        case R.id.logout:
            Toast.makeText(this,"You Clicked logout option!!",Toast.LENGTH_SHORT).show();
            break;

    }
    return super.onOptionsItemSelected(item);
}
}

```

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:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Helo 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>
```

settingPage.java

```
package com.example.s3mca55;

public class settingPage {

}
```

menu_main.xml

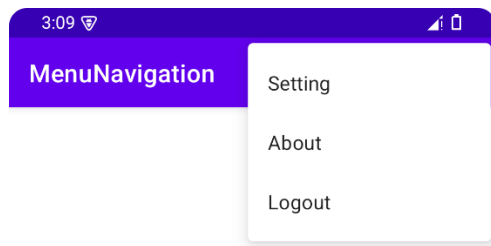
```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@+id/settings"
        android:title="Setting" />
    <item
        android:id="@+id/about"
        android:title="About" />
    <item
```

```
android:id="@+id/logout"
```

```
android:title="Logout" />
```

```
</menu>
```

OUTPUT:



Helo World!



RESULT:

The program was executed successfully and the output was verified.

EXPERIMENT NO: 10

AIM: Develop application that works with explicit intents

Procedure:***MainActivity.java***

```
package com.example.s3mca55;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.Toast;
import android.view.View;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    EditText name,age;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        name = findViewById(R.id.textName);
        age = findViewById(R.id.textAge);
    }

    public void switchActivity(View view){
        Intent intent = new Intent(MainActivity.this, MainActivity2.class);
        intent.putExtra("user",name.getText().toString());
        intent.putExtra("age",age.getText().toString());
        startActivity(intent);
    }
}
```



```
}  
}
```

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:id="@+id/textView"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="Activity-1 "  
    app:layout_constraintBottom_toBottomOf="parent"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintHorizontal_bias="0.498"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent"  
    app:layout_constraintVertical_bias="0.105" />
```

```
<EditText  
    android:id="@+id/textName"  
    android:layout_width="379dp"  
    android:layout_height="48dp"  
    android:hint="Please enter name"  
    android:inputType="text"
```

```
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="1.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.2" />
```

<EditText

```
android:id="@+id/textAge"
android:layout_width="379dp"
android:layout_height="48dp"
android:hint="Please enter age"
android:inputType="text"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.305" />
```

<Button

```
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Button"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
android:onClick="switchActivity"/>
```

</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity2.java

```
package com.example.s3mca55;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {
    TextView text;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);

        Intent intent = getIntent();
        String user = intent.getStringExtra("user");
        String age = intent.getStringExtra("age");
        text = findViewById(R.id.textView);
        text.setText("Welcome "+user+" age "+age);
    }
}
```

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">
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Activity-2"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    tools:layout_editor_absoluteX="165dp"
    tools:layout_editor_absoluteY="372dp"/>
</androidx.constraintlayout.widget.ConstraintLayout>

```

AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.S3mca55"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">

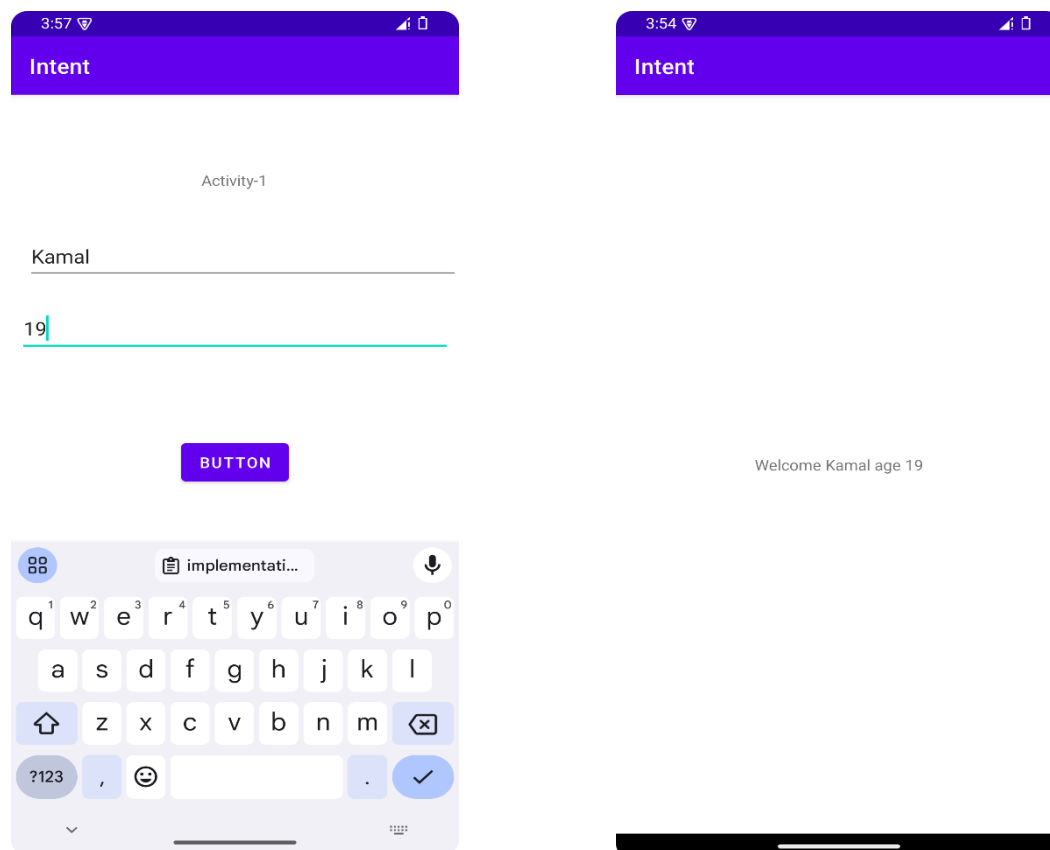
```

```

<intent-filter>
    <action android:name="android.intent.action.MAIN" />
    <category android:name="android.intent.category.LAUNCHER" />
</intent-filter>
<meta-data
    android:name="android.app.lib_name"
    android:value="" />
</activity>
<activity android:name=".MainActivity2"></activity>
</application>
</manifest>

```

OUTPUT:



RESULT:

The program was executed successfully and the output was verified.

EXPERIMENT NO: 11

AIM: Develop an application that implements Spinner component and perform event handling

Procedure:

MainActivity.java

```
package com.example.s3mca55;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
```

```
import android.os.Bundle;
```

```
import android.widget.Toast;
```

```
import android.view.View;
```

```
import android.widget.TextView;
```

```
import android.widget.AdapterView;
```

```
import android.widget.AdapterView;
```

```
import android.widget.AdapterView;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    String [] names= {"Item1", "Item2", "Item3"};
```

```
    String [] des= {"Item1 Text", "item2 Text", "Item3 Text"};
```

```
    ArrayAdapter adapter;
```

```
    Spinner spinner;
```

```
    TextView selectedItems;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        spinner = findViewById(R.id.spinner);
```

```
        selectedItems = findViewById(R.id.textView);
```

```
        adapter = new
```

```
        ArrayAdapter(getApplicationContext(),android.R.layout.simple_list_item_1,names);
```

```

spinner.setAdapter(adapter);
spinner.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
        switch (i){
            case 0:
                selectedItem.setText(""+des[i]);
                break;
            case 1:
                selectedItem.setText(""+des[i]);
                break;
            case 2:
                selectedItem.setText(""+des[i]);
                break;
        }
    }
});

@Override
public void onNothingSelected(AdapterView<?> adapterView) {

}
});
}

}

```

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"

```

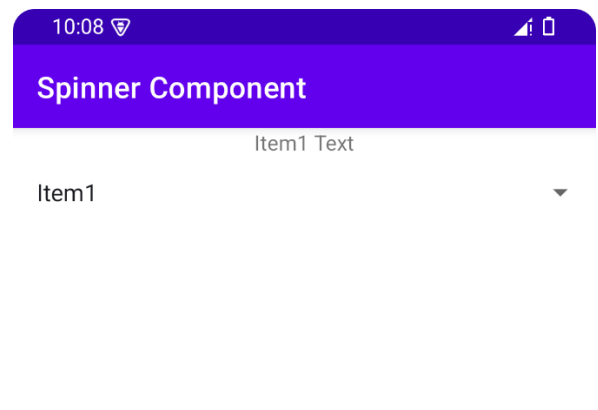
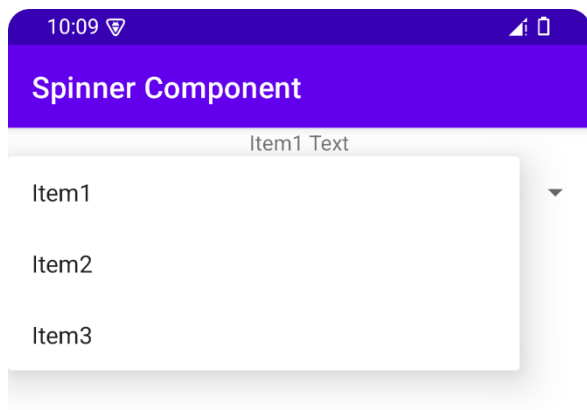
```
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
```

```
<TextView
    android:id="@+id/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"
    app:layout_constraintVertical_bias="0.604" />
```

```
<Spinner
    android:id="@+id/spinner"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:minHeight="48dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    tools:ignore="SpeakableTextPresentCheck" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```


OUTPUT:



RESULT:

The program was executed successfully and the output was verified.

EXPERIMENT NO: 12

AIM: Develop application using Fragments

Procedure:

MainActivity.java

```
package com.example.s3mca55;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
```

```
import android.os.Bundle;
```

```
import android.widget.Toast;
```

```
import android.view.View;
```

```
import android.widget.TextView;
```

```
import android.widget.Button;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        TextView selctdfgmt = findViewById(R.id.selectedFrgmnt);
```

```
        Button frgmntbtn1 = findViewById(R.id.frgmnt1);
```

```
        Button frgmntbtn2 = findViewById(R.id.frgmnt2);
```

```
        frgmntbtn1.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

```
            public void onClick(View v) {
```

```
                getSupportFragmentManager().beginTransaction().replace(R.id.frgmntcontainer, new  
FirstFragment()).commit();
```

```
                selctdfgmt.setText("Selected: fragment-1");
```

```
            }
```

```

    });

    frgmntbtn2.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View v) {

            getSupportFragmentManager().beginTransaction().replace(R.id.frgmntcontainer, new
SecondFragment()).commit();

            selctdfgmt.setText("Selected: fragment-2");

        }

    });

}

}

```

FirstFragment.java

```

package com.example.s3mca55;

import androidx.fragment.app.Fragment;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

import android.graphics.Color;
import android.widget.LinearLayout;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;

public class FirstFragment extends Fragment {

    @Nullable

```

@Override

```
public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container,
@Nullable Bundle savedInstanceState) {

    // Create a LinearLayout to hold the TextView

    LinearLayout linearLayout = new LinearLayout(getActivity());

    linearLayout.setOrientation(LinearLayout.VERTICAL);

    linearLayout.setBackgroundColor(Color.rgb(135, 206, 235)); // Set the background color (e.g.,
light gray)

    linearLayout.setLayoutParams(new ViewGroup.LayoutParams(
        ViewGroup.LayoutParams.MATCH_PARENT,
        ViewGroup.LayoutParams.MATCH_PARENT
    ));

    // Create a TextView to show the "Hello!" message
    TextView textView = new TextView(getActivity());
    textView.setText("Fragment-1");
    textView.setTextSize(30);
    textView.setLayoutParams(new LinearLayout.LayoutParams(
        ViewGroup.LayoutParams.WRAP_CONTENT,
        ViewGroup.LayoutParams.WRAP_CONTENT
    ));

    // Add the TextView to the LinearLayout
    linearLayout.addView(textView);

    return linearLayout; // Return the LinearLayout as the root view for the fragment
}
}
```

SecondFragment.java

```
package com.example.s3mca55;
```

```
import androidx.fragment.app.Fragment;
```

```

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

import android.graphics.Color;
import android.widget.LinearLayout;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;

public class SecondFragment extends Fragment {
    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container,
        @Nullable Bundle savedInstanceState) {
        // Create a LinearLayout to hold the TextView
        LinearLayout linearLayout = new LinearLayout(getActivity());
        linearLayout.setOrientation(LinearLayout.VERTICAL);
        linearLayout.setBackgroundColor(Color.rgb(235, 106, 135)); // Set the background color (e.g.,
        light gray)
        linearLayout.setLayoutParams(new ViewGroup.LayoutParams(
            ViewGroup.LayoutParams.MATCH_PARENT,
            ViewGroup.LayoutParams.MATCH_PARENT
        ));
        // Create a TextView to show the "Hello!" message
        TextView textView = new TextView(getActivity());
        textView.setText("Fragment-2");
        textView.setTextSize(30);
        textView.setLayoutParams(new LinearLayout.LayoutParams(
            ViewGroup.LayoutParams.WRAP_CONTENT,

```

ViewGroup.LayoutParams.WRAP_CONTENT

));

// Add the TextView to the LinearLayout

linearLayout.addView(textView);

return linearLayout; // Return the LinearLayout as the root view for the fragment

}

}

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:id="@+id/selectedFrgmnt"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:text="Fragment Selected"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintHorizontal_bias="0.498"

app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toTopOf="parent"

app:layout_constraintVertical_bias="0.583" />

<Button

```
    android:id="@+id/frgmnt1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Fragment1"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.201"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.499" />
```

<Button

```
    android:id="@+id/frgmnt2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Fragment2"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.791"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.499" />
```

<FrameLayout

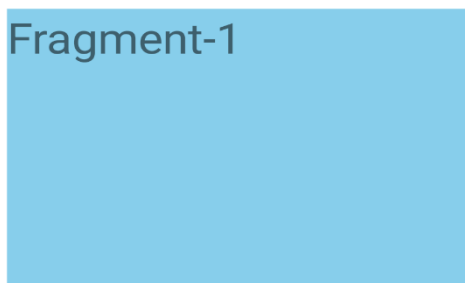
```
    android:id="@+id/frgmntcontainer"
    android:layout_width="300dp"
    android:layout_height="200dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.1">
```

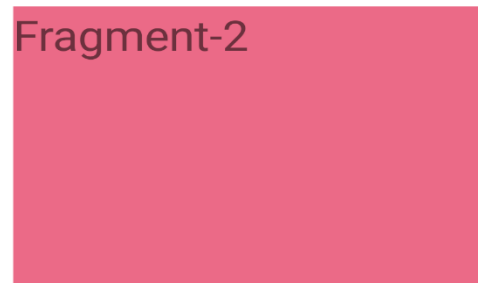
```
</FrameLayout>
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

OUTPUT:



Selected: fragment-1



Selected: fragment-2



RESULT:

The program was executed successfully and the output was verified.

EXPERIMENT NO: 13

AIM: Create a database using SQLite and perform INSERT, UPDATE, SELECT and DELETE.

Procedure:***MainActivity.java***

```
package com.example.dbapplication;

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 name,contact,dob;
    Button insert,update,delete,view;
    DBHelper DB;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        name = findViewById(R.id.Name);
        contact = findViewById(R.id.contact);
        dob = findViewById(R.id.dob);
        insert = findViewById(R.id.btnInsert);
```

```

update = findViewById(R.id.btnUpdate);
delete = findViewById(R.id.btnDelete);
view = findViewById(R.id.btnView);
DB=new DBHelper(this);
insert.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String nameTXT=name.getText().toString();
        String contactTXT=contact.getText().toString();
        String dobTXT=dob.getText().toString();
        Boolean checkinsertdata=DB.insertuserdata(nameTXT,contactTXT,dobTXT);
        if(checkinsertdata==true)
            Toast.makeText(MainActivity.this, "New Entry Inserted",
Toast.LENGTH_SHORT).show();
        else
            Toast.makeText(MainActivity.this, "Not Inserted", Toast.LENGTH_SHORT).show();
    }
});
update.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String nameTXT=name.getText().toString();
        String contactTXT=contact.getText().toString();
        String dobTXT=dob.getText().toString();
        Boolean checkupdatedata=DB.updateuserdata(nameTXT,contactTXT,dobTXT);
        if (checkupdatedata==true)
            Toast.makeText(MainActivity.this, "Entry Updated!!!",
Toast.LENGTH_SHORT).show();
        else
            Toast.makeText(MainActivity.this, "Not Updated", Toast.LENGTH_SHORT).show();
    }
});

```

```

delete.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String nameTXT=name.getText().toString();
        Boolean checkdeletedata=DB.deletedata(nameTXT);
        if (checkdeletedata)
            Toast.makeText(MainActivity.this, "Entry Deleted", Toast.LENGTH_SHORT).show();
        else
            Toast.makeText(MainActivity.this, "Not Deleted", Toast.LENGTH_SHORT).show();
    }
});

view.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Cursor result=DB.getdata();
        if (result.getCount()==0){
            Toast.makeText(MainActivity.this, "No Entry Found!!",
Toast.LENGTH_SHORT).show();
        }
        else{
            StringBuffer buffer=new StringBuffer();
            while(result.moveToNext()){
                buffer.append("Name:"+result.getString(0)+"\n");
                buffer.append("Contact:"+result.getString(1)+"\n");
                buffer.append("DOB:"+result.getString(2)+"\n");
            }
            AlertDialog.Builder builder=new AlertDialog.Builder(MainActivity.this);
            builder.setCancelable(true);
            builder.setTitle("User Entries");
            builder.setMessage(buffer.toString());
            builder.show();
        }
    }
});

```

```

        }
    }
});
}
}

```

DBHelper.java

```

package com.example.dbapplication;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

public class DBHelper extends SQLiteOpenHelper {
    public DBHelper(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 oldVersion, int newVersion) {
        DB.execSQL("drop Table if exists Userdetails");
    }

    public boolean insertuserdata(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 updateuserdata(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;
}

```

```

}

```

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/contact"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_marginTop="48dp"
```

```
    android:ems="10"
```

```
    android:hint="Contact Number"
```

```
    android:inputType="textPersonName"
```

```
    android:text=""
```

```
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.542"
```

```
    app:layout_constraintStart_toStartOf="parent"
```

```
    app:layout_constraintTop_toBottomOf="@+id/Name" />
```

```
<EditText
```

```
    android:id="@+id/Name"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_marginTop="136dp"
```

```
    android:ems="10"
```

```
    android:hint="Enter your Name"
```

```
    android:inputType="textPersonName"
```

```
    android:text=""
```

```
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.547"
```

```
    app:layout_constraintStart_toStartOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent" />
```

```
<EditText
    android:id="@+id/dob"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="39dp"
    android:ems="10"
    android:hint="Date of Birth"
    android:inputType="textPersonName"
    android:text=""
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.547"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/contact" />
```

```
<Button
    android:id="@+id/btnInsert"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="10dp"
    android:text="INSERT"
    app:layout_constraintBaseline_toBaselineOf="@+id/btnUpdate"
    app:layout_constraintEnd_toStartOf="@+id/btnUpdate"
    app:layout_constraintStart_toStartOf="parent" />
```

```
<Button
    android:id="@+id/btnUpdate"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="28dp"
    android:layout_marginBottom="61dp"
    android:text="UPDATE"
    app:layout_constraintBottom_toTopOf="@+id/btnView"
```



```
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@+id/btnInsert" />
```

```
<Button
```

```
    android:id="@+id/btnDelete"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="53dp"
    android:text="DELETE"
    app:layout_constraintBaseline_toBaselineOf="@+id/btnView"
    app:layout_constraintEnd_toStartOf="@+id/btnView" />
```

```
<Button
```

```
    android:id="@+id/btnView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="132dp"
    android:text="VIEW"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="@+id/dob"
    app:layout_constraintStart_toStartOf="@+id/btnUpdate" />
```

```
<androidx.constraintlayout.widget.Guideline
```

```
    android:id="@+id/guideline2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    app:layout_constraintGuide_begin="20dp" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

OUTPUT:

3:34 DBApplication

Enter your Name

Contact Number

Date of Birth

INSERT UPDATE

DELETE VIEW

3:37 DBApplication

ARUN

7994825496

19022002

INSERT UPDATE

DELETE VIEW

New Entry Inserted

3:38 DBApplication

ARUN

00000

19022002

INSERT UPDATE

DELETE VIEW

Entry Updated!!!

3:40 DBApplication

ARJUN

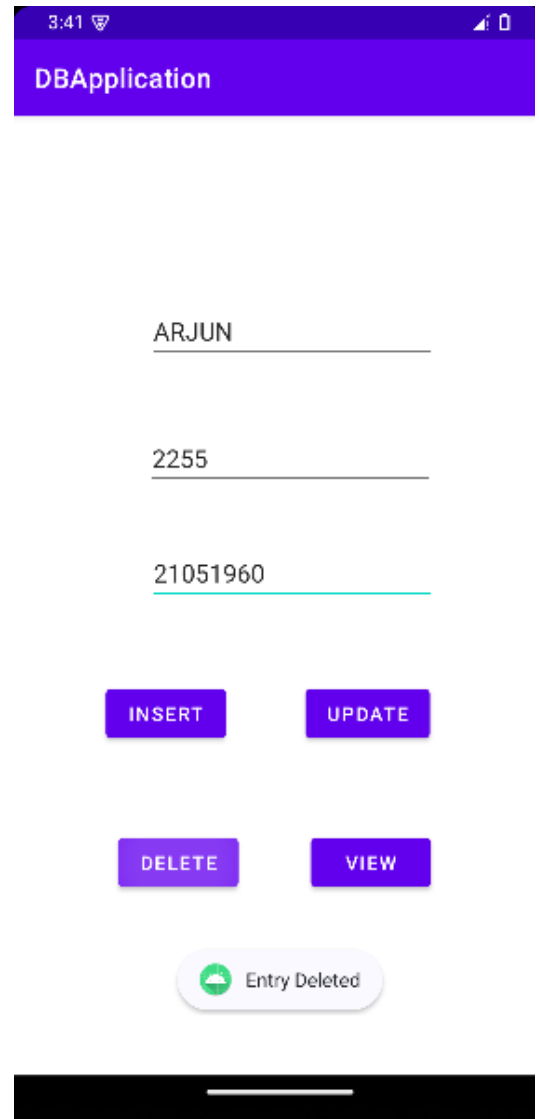
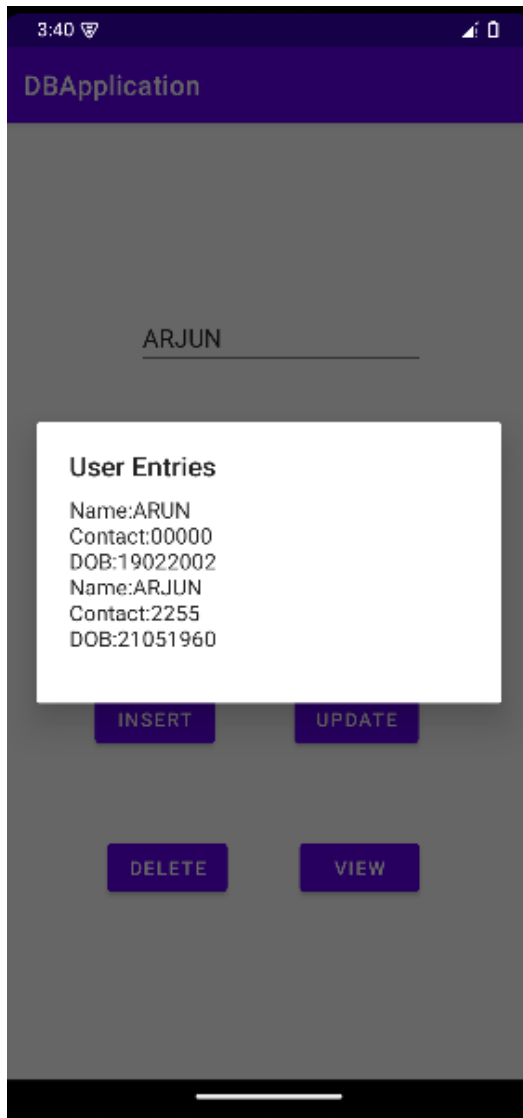
2255

21051960

INSERT UPDATE

DELETE VIEW

New Entry Inserted



RESULT:

The program was executed successfully and the output was verified.