Experiment No.: 14

Aim

Develop an application that use Grid View with images and display Alert box on selection

CO4

Implement activities with dialogs, spinner, fragments and navigation drawer by applying themes

Procedure

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">
 <GridView
    android:id="@+id/gv1"
    android:verticalSpacing="1dp"
    android:horizontalSpacing="1dp"
    android:numColumns="2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
 </GridView>
</RelativeLayout>
```

Row_data.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <RelativeLayout
        android:id="@+id/gv12"
        android:layout_width="190dp"
        android:layout_height="180dp"
        android:background ="#fff">
        <TextView
            android:id="@+id/tvid"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_centerHorizontal="true"
            android:text="Challanger"
            android:textSize="25dp" />
        <ImageView
            android:id="@+id/imgview"
            android:layout_width="90dp"
            android:layout_height="90dp"
            android:layout_alignParentStart="true"
            android:layout_alignParentTop="true"
            android:layout_alignParentEnd="true"
            android:layout_alignParentBottom="true"
            android:layout_marginStart="50dp"
            android:layout_marginTop="45dp"
            android:layout_marginEnd="50dp"
            android:layout_marginBottom="45dp"
```

```
            android:src="@drawable/image1" />

    </RelativeLayout>

</RelativeLayout>
```

MainActivity.java

```java
package com.fb.exp14;

import androidx.appcompat.app.AppCompatActivity;

import android.media.Image;

import android.os.Bundle;

import android.view.View;

import android.view.ViewGroup;

import android.widget.AdapterView;

import android.widget.BaseAdapter;

import android.widget.CursorAdapter;

import android.widget.GridView;

import android.widget.ImageView;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    GridView gridView;

    String[] frtname={"Challanger","Alto 800"};

    int[] frtimg={R.drawable.image1,R.drawable.image2};

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        gridView= findViewById(R.id.gv1);

        CustomAdaptor customadaptor = new CustomAdaptor();

        gridView.setAdapter(customadaptor);
```
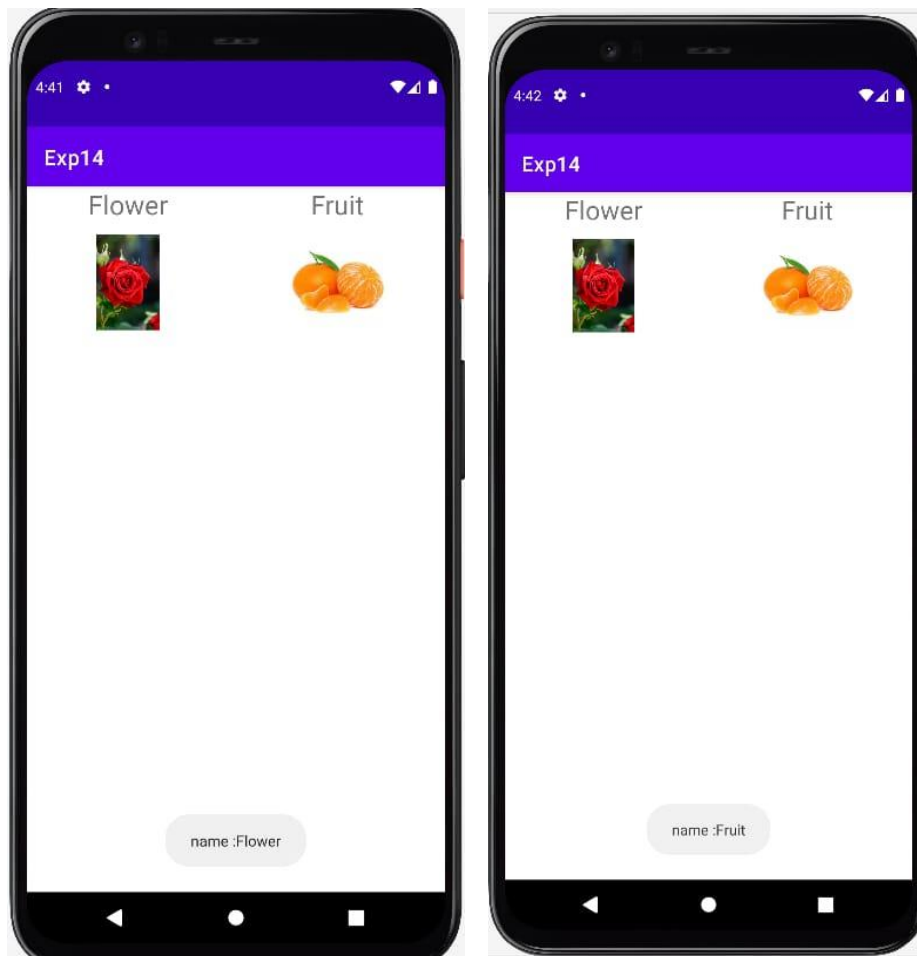
```java
gridView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
        Toast.makeText(MainActivity.this, "name :"+frtname[i],
        Toast.LENGTH_SHORT).show();
    }
});
}
private class CustomAdaptor extends BaseAdapter {
    @Override
    public int getCount() {
        return frtimg.length;
    }
    @Override
    public Object getItem(int i) {
        return null;
    }
    @Override
    public long getItemId(int i) {
        return 0;
    }
    @Override
    public View getView(int i, View view, ViewGroup viewGroup) {
        View view1 =getLayoutInflater().inflate(R.layout.row_data,null);
        TextView name=view1.findViewById(R.id.tvid);
        ImageView img = view1.findViewById(R.id.imgview);
        name.setText(frtname[i]);
        img.setImageResource(frtimg[i]);
```

```
        return view1;

    }

  }

}
```

Output Screenshot

Result

The program was executed and the result was successfully obtained. Thus CO4 was obtained.