

Practical List-1

Practical :- 1

activity_main.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"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="200dp"
        android:id="@+id/iv1"
        android:scaleType="fitCenter"/>

    <Gallery
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/g1"
        android:layout_marginTop="100dp"
        android:animationDuration="2000"
        android:padding="10dp"
        android:spacing="5dp"
        android:unselectedAlpha="50"/>
</LinearLayout>
```

MainActivity.java

```
package com.example.practical_list_1;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Gallery;
import android.widget.ImageView;

import com.example.practical_list_1.CustomizeedGalleryAdapter;
import com.example.practical_list_1.R;

import java.nio.channels.GatheringByteChannel;
```

```

public class MainActivity extends AppCompatActivity {

    Gallery G1;
    CustomizedGalleryAdapter cga;
    ImageView IV1;

    int[] images={R.drawable.imagea,
R.drawable.imageb,R.drawable.mobilea,R.drawable.mobileb};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        G1=findViewById(R.id.g1);
        IV1=findViewById(R.id.iv1);

        cga=new CustomizedGalleryAdapter(getApplicationContext(),images);
        G1.setAdapter(cga);

        G1.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View view, int position,
long id) {
                IV1.setImageResource(images[position]);
            }
        });
    }
}

```

CustomizedGalleryAdapter.java

```

package com.example.practical_list_1;

import android.content.Context;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.Gallery;
import android.widget.ImageView;

public class CustomizedGalleryAdapter extends BaseAdapter {

    public Context context;
    private int[] images;

    public CustomizedGalleryAdapter(Context context, int[] images) {
        this.context = context;
        this.images = images;
    }

    @Override

```

```

public int getCount() {
    return images.length;
}

@Override
public Object getItem(int position) {
    return position;
}

@Override
public long getItemId(int position) {
    return position;
}

@Override
public View getView(int position, View convertView, ViewGroup parent) {
    ImageView iv=new ImageView(context);
    iv.setImageResource(images[position]);
    iv.setLayoutParams(new Gallery.LayoutParams(200,200));
    return iv;
}
}

```

Practical :- 2

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">

    <ImageSwitcher
        android:layout_width="match_parent"
        android:layout_height="250dp"
        android:id="@+id/is1"/>

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btn1"
        android:text="NEXT"
        android:layout_below="@id/is1"
        android:layout_margin="20dp"
        android:layout_marginLeft="100dp"/>

```

```

<Button
    android:id="@+id/btn2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="PREVIOUS"
    android:layout_alignBottom="@+id/btn1"
    android:layout_toRightOf="@+id/btn1"/>

<RatingBar
    android:id="@+id/rb1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/btn2"
    android:layout_centerHorizontal="true"
    android:layout_margin="20dp"
    android:isIndicator="false"
    android:numStars="5"
    android:rating="0"
    android:stepSize="0.25" />

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/tv1"
    android:layout_below="@+id/rb1"/>
</RelativeLayout>

```

MainActivity.java

```

package com.example.practical_list_1_2;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.graphics.Color;
import android.media.Image;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageSwitcher;
import android.widget.ImageView;
import android.widget.RatingBar;
import android.widget.TextView;
import android.widget.Toast;
import android.widget.ViewSwitcher;

public class MainActivity extends AppCompatActivity {

    ImageSwitcher IS1;
    Button BTN1,BTN2;
    RatingBar RB1;
    TextView TV1;

```

```

    private final int[]
    imageUrlList={R.drawable.ia,R.drawable.ib,R.drawable.ic,R.drawable.id};

    private int position=0;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        controlIns();
        eventHandler();
    }

    private void controlIns()
    {
        IS1=findViewById(R.id.is1);
        BTN1=findViewById(R.id.btn1);
        BTN2=findViewById(R.id.btn2);
        RB1=findViewById(R.id.rb1);
        TV1=findViewById(R.id.tv1);
        IS1.setFactory(new ViewSwitcher.ViewFactory() {
            @Override
            public View makeView() {
                ImageView iv=new ImageView(MainActivity.this);
                iv.setImageResource(imageList[position]);
                return iv;
            }
        });
    }

    private void eventHandler()
    {
        BTN2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(position>0)
                {
                    position--;
                }
                else
                {
                    position=0;
                }
                IS1.setImageResource(imageList[position]);
            }
        });
        BTN1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(position<imageUrlList.length)
                {
                    position++;
                }
            }
        });
    }

```

```

        else
        {
            position=imageList.length-1;
        }
        IS1.setImageResource(imageList[position]);
    }
});

RB1.setOnRatingBarChangeListener(new RatingBar.OnRatingBarChangeListener() {
    @Override
    public void onRatingChanged(RatingBar ratingBar, float rating, boolean
fromUser) {
        float rt=RB1.getRating();

        //Toast.makeText(getApplicationContext(),rt,Toast.LENGTH_LONG).show();

        if(rt>0 && rt<1.25)
        {
            TV1.setText("POOR : " + rt);
            TV1.setTextColor(Color.RED);
        }
        else if(rt>1.25 && rt<=2.5)
        {
            TV1.setText("Adequet : " + rt);
            TV1.setTextColor(Color.YELLOW);
        }

        else if(rt>2.5 && rt<=3.75)
        {
            TV1.setText("Good : " + rt);
            TV1.setTextColor(Color.GREEN);
        }

        else if(rt>3.75 && rt<=5)
        {
            TV1.setText("Outstanding : " + rt);
            TV1.setTextColor(Color.BLUE);
        }
    }
});
}
}

```

Practical :- 3

activity_main.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"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <GridView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/gv1"
        android:horizontalSpacing="10dp"
        android:verticalSpacing="10dp"
        android:numColumns="3"/>

    <SeekBar
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/sb1"
        android:max="100"
        android:progress="0"/>

</LinearLayout>
```

MainActivity.java

```
package com.example.practical_list_1_3;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.GridView;
import android.widget.AdapterView;
import android.widget.SeekBar;
import android.widget.TextView;
import android.widget.Toast;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

    GridView GV1;
    SeekBar SB1;
```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    controlIns();
    eventHandler();
}

private void controlIns()
{
    GV1=findViewById(R.id.gv1);
    SB1=findViewById(R.id.sb1);
}

private void eventHandler()
{
    SB1.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {
        @Override
        public void onProgressChanged(SeekBar seekBar, int progress, boolean
fromUser) {
            if(progress>=0 && progress<=25)
            {
                Integer[]
images={R.drawable.ia,R.drawable.ib,R.drawable.ic,R.drawable.id};
                imageAdapter adp=new imageAdapter(getCallingActivity(),images);
                GV1.setAdapter(adp);
            }
            else if(progress>=26 && progress<=50)
            {
                Integer[]
images={R.drawable.ie,R.drawable.if,R.drawable.ig,R.drawable.ih};
                imageAdapter adp=new
imageAdapter(getApplicationContext(),images);
                GV1.setAdapter(adp);
            }
            else if(progress>=50 && progress<=75)
            {
                Integer[]
images={R.drawable.ii,R.drawable.ij,R.drawable.ik,R.drawable.il};
                imageAdapter adp=new
imageAdapter(getApplicationContext(),images);
                GV1.setAdapter(adp);
            }
            else
            {
                Integer[]
images={R.drawable.im,R.drawable.in,R.drawable.io,R.drawable.ip};
                imageAdapter adp=new
imageAdapter(getApplicationContext(),images);
                GV1.setAdapter(adp);
            }
        }
    });
}

@Override

```



```

        public void onStartTrackingTouch(SeekBar seekBar) {

        }

        @Override
        public void onStopTrackingTouch(SeekBar seekBar) {

        }
    });
}
}

```

imageAdapter.java

```

package com.example.practical_list_1_3;

import android.content.ComponentName;
import android.content.Context;
import android.media.Image;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.GridView;
import android.widget.ImageView;

public class imageAdapter extends BaseAdapter {

    Integer[] imageIA;
    Context c;

    public imageAdapter(Integer[] imageIA, Context c) {
        this.imageIA = imageIA;
        this.c = c;
    }

    @Override
    public int getCount() {
        return imageIA.length;
    }

    @Override
    public Object getItem(int position) {
        return imageIA[position];
    }

    @Override
    public long getItemId(int position) {
        return imageIA[position];
    }

    @Override

```

```

public View getView(int position, View convertView, ViewGroup parent) {
    ImageView iv;

    if(convertView==null)
    {
        iv=new ImageView(c);
        iv.setLayoutParams(new ViewGroup.LayoutParams(300,300));
        iv.setPadding(10,10,10,10);
        iv.setScaleType(ImageView.ScaleType.CENTER_CROP);
    }
    else
    {
        iv=(ImageView)convertView;
    }
    iv.setImageResource(imageIA[position]);
    return iv;
}
}

```

Practical :- 4

activity_main.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"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/edt1"
        android:hint="Enter url..." />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/btn1"
        android:text="Search" />

    <WebView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/wv1" />

</LinearLayout>

```

MainActivity.java

```
package com.example.practical_list_1_4;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.webkit.WebResourceRequest;
import android.webkit.WebView;
import android.webkit.WebViewClient;
import android.widget.Button;
import android.widget.EditText;

import java.net.URL;

public class MainActivity extends AppCompatActivity {

    EditText EDT1;
    Button BTN1;
    WebView WV1;
    String URL;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        controlIns();
        eventHandler();
    }

    private void controlIns()
    {
        EDT1=findViewById(R.id.edt1);
        BTN1=findViewById(R.id.btn1);
        WV1=findViewById(R.id.wv1);
        WV1.setWebViewClient(new MyBrowser());
    }

    private void eventHandler()
    {
        BTN1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                URL=EDT1.getText().toString();

                WV1.getSettings().setLoadsImagesAutomatically(true);
                WV1.getSettings().setJavaScriptEnabled(true);
                WV1.loadUrl(URL);
            }
        });
    }
    private class MyBrowser extends WebViewClient{
        @Override
```

```

        public boolean shouldOverrideUrlLoading(WebView view, WebResourceRequest
request) {
            view.loadUrl(URL);
            return true;
        }
    }
}

```

Practical :- 5

activity_main.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"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <SearchView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/sv1"
        android:iconifiedByDefault="false"
        android:queryHint="Enter months..." />

    <ListView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/lv1" />

</LinearLayout>

```

MainActivity.java

```

package com.example.practical_list_1_5;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.SearchView;

import java.util.ArrayList;

```

```

public class MainActivity extends AppCompatActivity {

    SearchView SV1;
    ListView LV1;
    ArrayList<String> list;
    ArrayAdapter<String> adapter;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        controlIns();
        eventHaldler();
    }

    private void controlIns()
    {
        SV1=findViewById(R.id.sv1);
        LV1=findViewById(R.id.lv1);
    }

    private void eventHaldler()
    {
        list=new ArrayList<>();
        list.add("January");
        list.add("February");
        list.add("March");
        list.add("April");
        list.add("May");
        list.add("June");
        list.add("July");
        list.add("August");
        list.add("September");
        list.add("October");
        list.add("November");
        list.add("December");

        adapter=new ArrayAdapter<String>(this,
android.R.layout.simple_list_item_1,list);
        LV1.setAdapter(adapter);

        SV1.setOnQueryTextListener(new SearchView.OnQueryTextListener() {
            @Override
            public boolean onQueryTextSubmit(String query) {
                return false;
            }

            @Override
            public boolean onQueryTextChange(String newText) {
                adapter.getFilter().filter(newText);
                return(false);
            }
        });
    }
}

```

} }