

**MainActivity.java**

```
package com.example.lab9;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ImageView;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    ListView listView;
    String mTitle[] = {"Facebook", "WhatsApp", "Twitter", "Instagram",
    "YouTube"};
    String mDescripton[] = {"Facebook Description", "WhatsApp
    Description", "Twitter Description", "Instagram Description", "YouTube Description"};
    int images[] = {R.drawable.facebook, R.drawable.whatsapp,
    R.drawable.twitter, R.drawable.instagram, R.drawable.youtube};
    //so our images and other things are set in array

    //now paste some images in drawable

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

        listView = findViewById(R.id.listView);
        //now create an adapter class

        MyAdapter adapter = new MyAdapter(this, mTitle, mDescripton, images);
```

```

listView.setAdapter(adapter);

//now set item click on list view
listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> parent, View view, int position,
long id) {
        if (position == 0){
            Toast.makeText(MainActivity.this, "Facebook Description",
Toast.LENGTH_SHORT).show();
        }
        if (position == 1){
            Toast.makeText(MainActivity.this, "WhatsApp Description",
Toast.LENGTH_SHORT).show();
        }
        if (position == 2){
            Toast.makeText(MainActivity.this, "Twitter Description",
Toast.LENGTH_SHORT).show();
        }
        if (position == 3){
            Toast.makeText(MainActivity.this, "Instagram Description",
Toast.LENGTH_SHORT).show();
        }
        if (position == 4){
            Toast.makeText(MainActivity.this, "YouTube Description",
Toast.LENGTH_SHORT).show();
        }
    }
});
// so item click is done now check list view
}

```

```

class MyAdapter extends ArrayAdapter<String> {
    Context context;
    String rTitle[];
    String rDescription[];
    int rImgs[];

```

```

    MyAdapter (Context c, String title[], String description[], int imgs[]){
        super(c, R.layout.row, R.id.textView1, title);
        this.context = c;
        this.rTitle = title;
    }

```

```

        this.rDescription = description;
        this.rImgs = imgs;
    }

    @NonNull
    @Override
    public View getView(int position, @Nullable View convertView, @NonNull
    ViewGroup parent) {
        LayoutInflater inflater =
        (LayoutInflater)getApplicationContext().getSystemService(Context.LAYOUT_INFL
        ATER_SERVICE);
        View row = inflater.inflate(R.layout.row, parent, false);
        ImageView images = row.findViewById(R.id.image);
        TextView myTitle = row.findViewById(R.id.textView1);
        TextView myDescription = row.findViewById(R.id.textView2);

        //now set our resources on views
        images.setImageResource(rImgs[position]);
        myTitle.setText(rTitle[position]);
        myDescription.setText(rDescription[position]);

        return row;
    }
}

```

### **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">

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

    </ListView>

```

</LinearLayout>

### row.xml

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<LinearLayout
```

```
    xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    android:layout_width="match_parent"
```

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

```
    android:orientation="horizontal"
```

```
    android:padding="16dp"
```

```
>
```

```
    <ImageView
```

```
        android:layout_width="75dp"
```

```
        android:layout_height="75dp"
```

```
        android:src="@mipmap/ic_launcher"
```

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

```
/>
```

```
    <LinearLayout
```

```
        android:layout_width="match_parent"
```

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

```
        android:orientation="vertical"
```

```
>
```

```
        <TextView
```

```
            android:layout_width="match_parent"
```

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

```
            android:text="Main Title"
```

```
            android:textColor="#000"
```

```
            android:textStyle="bold"
```

```
            android:layout_margin="5dp"
```

```
            android:textSize="20sp"
```

```
            android:id="@+id/textView1"
```

```
/>
```

```
        <TextView
```

```
            android:layout_width="match_parent"
```

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

```
            android:text="Sub Title"
```

```
            android:textColor="#a9a9a9"
```

```
            android:textStyle="bold"
```

```
            android:layout_margin="5dp"
```

```
            android:textSize="15sp"
```

```
            android:id="@+id/textView2"
```

```
/>
```

```
<!--so out layout is set-->
```

</LinearLayout>

</LinearLayout>

**OUTPUT:**

