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**Experiment No.: 13****Aim**

Develop an application that uses Array Adapter with List View.

**CO3**

Develop applications with multiple activities using intents, array adapter, exceptions and options menu.

**Procedure****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:id="@+id/listview"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
    </ListView>
</LinearLayout>
```

**listfile.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:layout_height="match_parent">
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content">
    <ImageView
        android:id="@+id/img"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_margin="5dp"/>
    <TextView
        android:id="@+id/tv1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="5dp"
        android:textColor="#01B0C1"/>
</LinearLayout>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/phn"
        android:layout_margin="5dp"
        android:textColor="#01B0C1"/>
</LinearLayout>
```

### MainActivity.java

```
package com.example.listview;

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

---

```
import android.os.Bundle;

import android.widget.ListView;

import android.widget.SimpleAdapter;

import java.util.ArrayList;

import java.util.HashMap;

public class MainActivity extends AppCompatActivity {

    String[] StudName = {"Arya","Albina","amal","anton"};

    int[] studicon = {R.drawable.propic,R.drawable.propic,R.drawable.propic,R.drawable.propic};

    String[] phnno = {"9946440708","9876543210","9846948959","8078747708"};

    String[] email =
{"alan@gmail.com","arun@gmail.com","Chacko@gmail.com","Swati@gmail.com"};

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        ListView lv = (ListView) findViewById(R.id.listview);

        ArrayList<HashMap<String,Object>>arrayList = new ArrayList<>();

        for(int i = 0; i<StudName.length;i++){

            HashMap<String,Object> map = new HashMap<>();

            map.put("contactName",StudName[i]);

            map.put("profile",studicon[i]);

            map.put("contactno",phnno[i]);

            arrayList.add((map));

        }

        String[] from = {"profile","contactName","contactno"};

        int[] to = {R.id.img,R.id.tv1,R.id.phn};

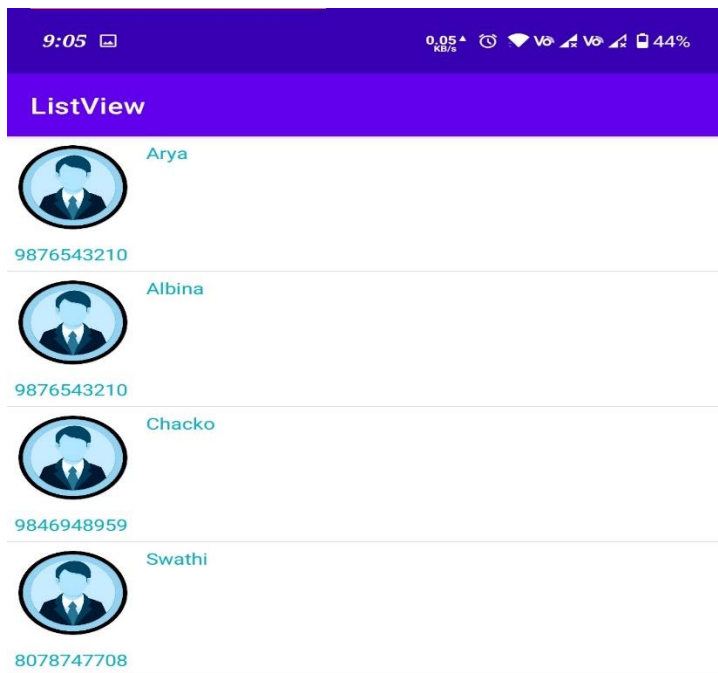
        SimpleAdapter adaptor= new SimpleAdapter(this,arrayList,R.layout.listfile,from,to);

        lv.setAdapter(adaptor);

    }

}
```

## Output Screenshot



## Result

The program was executed and the result was successfully obtained. Thus CO3 was obtained.