```
 1: package com.delta.listviews;
 2:
 3: import android.app.Activity;
 4: import android.app.ActionBar;
 5: import android.app.Fragment;
 6: import android.os.Bundle;
 7: import android.util.Log;
 8: import android.view.LayoutInflater;
 9: import android.view.Menu;
10: import android.view.MenuItem;
11: import android.view.View;
12: import android.view.ViewGroup;
13: import android.os.Build;
14: import android.widget.AdapterView;
15: import android.widget.ListView;
16:
17: public class ListViewActivity extends Activity {
18:     //initial data
19:     Place[] myPlacesArray = new Place[]{
20:             new Place("Art House", 78701 , "art" ,"This place is tasteful"),
21:             new Place("Bike Shop", 78702, "bike","Cool bikes"),
22:             new Place("Camera Fix", 78702, "polaroids","These guys always rip me off"),
23:             new Place("YETspace", 78702, "radio", "I LOVE this place"),
24:             new Place("Secret Space Pad", 94103, "rocket","Not very secret, are they?"),
25:             new Place("Taylor's Tailor", 60610, "scissors" , "Looking good.."),
26:             new Place("Boathouse", 78701, "shipwheel" ,"That place is full of pirates!"),
27:             new Place("Not Apple Store", 78702, "tablet", "Android rules!"),
28:             new Place("Tool Battleground", 78702, "tools", "That place is dangerous"),
29:             new Place("Travelpediocity", 78702, "travelerbag" ,"This is where i booked my summer trip"),
30:             new Place("UFO Pick-a-part", 90210, "ufo","Out of this world stuff here."),
31:             new Place("Spawrk's House", 99999, "volume", "The music is always so good"),
32:     };
33:
34:     String[] myStringArray = new String[]{
35:             "Art House",
36:             "Bike Shop",
37:             "Camera Fix",
38:             "YETspace",
39:             "Secret Space Pad",
40:             "Taylor's Tailor",
41:             "Boathouse",
42:             "Not Apple Store",
43:             "Tool Battleground",
44:             "Travelpediocity",
45:             "UFO Pick-a-part",
46:             "Spawrk's House",
47:     };
48:
```

```
49:        private ListView mListView;
50:        private PlaceAdapter mPlaceAdapter;
51:
52:
53:        @Override
54:        protected void onCreate(Bundle savedInstanceState) {
55:            super.onCreate(savedInstanceState);
56:            setContentView(R.layout.activity_list_view);
57:
58:            mListView = (ListView) findViewById(R.id.myListView);
59:
60:            mPlaceAdapter = new PlaceAdapter(getApplicationContext(),R.layout.row,myPlacesArray);
61:
62:            if(mListView != null){
63:                mListView.setAdapter(mPlaceAdapter);
64:            }
65:
66:            mListView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
67:                @Override
68:                public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
69:                    Log.v("PLACE", myPlacesArray[i].mNameOfPlace);
70:                }
71:            });
72:
73:        }
74:
75:        @Override
76:        public boolean onCreateOptionsMenu(Menu menu) {
77:
78:            // Inflate the menu; this adds items to the action bar if it is present.
79:            getMenuInflater().inflate(R.menu.list_view, menu);
80:            return true;
81:        }
82:
83:        @Override
84:        public boolean onOptionsItemSelected(MenuItem item) {
85:            // Handle action bar item clicks here. The action bar will
86:            // automatically handle clicks on the Home/Up button, so long
87:            // as you specify a parent activity in AndroidManifest.xml.
88:            int id = item.getItemId();
89:            if (id == R.id.action_settings) {
90:                return true;
91:            }
92:            return super.onOptionsItemSelected(item);
93:        }
94:
95:
96: }
```

```java
 1: package com.delta.listviews;
 2:
 3: /**
 4:  * Created by spawrks on 2/13/14.
 5:  */
 6: public class Place {
 7:
 8:     public String mNameOfPlace;
 9:     public int mZipCode;
10:     public String mNameOfImage;
11:     public String mPopup;
12:
13:     public Place (String startNameOfPlace, int startZipCode,String startNameOfImage, String startPopup ){
14:
15:         this.mNameOfPlace = startNameOfPlace;
16:         this.mZipCode = startZipCode;
17:         this.mNameOfImage = startNameOfImage;
18:         this.mPopup = startPopup;
19:
20:     }
21:
22: }
```

```
 1: package com.delta.listviews;
 2:
 3: import android.content.Context;
 4: import android.view.LayoutInflater;
 5: import android.view.View;
 6: import android.view.ViewGroup;
 7: import android.widget.ArrayAdapter;
 8: import android.widget.ImageView;
 9: import android.widget.TextView;
10:
11: /**
12:  * Created by learnovate on 2/14/14.
13:  */
14: public class PlaceAdapter extends ArrayAdapter<Place> {
15:
16:     Context mContext;
17:     int mLayoutResourceId;
18:     Place mData[] = null;
19:
20:     public PlaceAdapter(Context context, int resource, Place[] data) {
21:         super(context, resource, data);
22:         this.mContext = context;
23:         this.mLayoutResourceId = resource;
24:         this.mData = data;
25:     }
26:
27:
28:     @Override
29:     public Place getItem(int position) {
30:         return super.getItem(position);
31:     }
32:
33:     @Override
34:     public View getView(int position, View convertView, ViewGroup parent) {
35:         View row = convertView;
36:         //inflate the layout for a single row
37:         LayoutInflater inflater = LayoutInflater.from(mContext);
38:         row = inflater.inflate(mLayoutResourceId,parent,false);
39:
40:         //get a reference to the different view elements we wish to update
41:         TextView nameView = (TextView) row.findViewById(R.id.nameTextView);
42:         TextView zipView = (TextView) row.findViewById(R.id.zipcodeTextView);
43:         ImageView imageView = (ImageView) row.findViewById(R.id.imageView);
44:
45:         //get the data from the data array
46:         Place place = mData[position];
47:
48:         //setting the view to reflect the data we need to display
```

```
49:            nameView.setText(place.mNameOfPlace);
50:            zipView.setText(String.valueOf(place.mZipCode)); //always pay attention to your datatypes!
51:
52:            int resId = mContext.getResources().getIdentifier(place.mNameOfImage,"drawable",mContext.getPackageName());
53:            imageView.setImageResource(resId);
54:
55:            //returning the row view (because this is called getView after all)
56:            return row;
57:
58:
59:        }
60: }
```