

Set 1

```
<?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"

    android:padding="16dp">

    <EditText

        android:id="@+id/editTextMessage"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:hint="Enter message" />

    <Button

        android:id="@+id/buttonSend"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_below="@id/editTextMessage"

        android:layout_alignParentEnd="true"

        android:text="Send" />

</RelativeLayout>
```

```
package com.example.myapp;
```

```
import android.content.Intent;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

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

```
public class MainActivity extends AppCompatActivity {
```

```
    private EditText editTextMessage;
```

```
    private Button buttonSend;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        editTextMessage = findViewById(R.id.editTextMessage);
```

```
        buttonSend = findViewById(R.id.buttonSend);
```

```
        buttonSend.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

```

public void onClick(View v) {

    String message = editTextMessage.getText().toString().trim();

    Intent intent = new Intent(MainActivity.this, SecondActivity.class);

    intent.putExtra("MESSAGE", message);

    startActivity(intent);

}

});

```

@Override

```

protected void onActivityResult(int requestCode, int resultCode, Intent data) {

    super.onActivityResult(requestCode, resultCode, data);

    if (requestCode == REQUEST_CODE_SECOND_ACTIVITY && resultCode == RESULT_OK) {

        String response = data.getStringExtra("RESPONSE");

        // Handle the response here (e.g., display it in a TextView)

    }

}

}

}

}

```

```
<?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"
```

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

```
<TextView  
    android:id="@+id/textViewReceivedMessage"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content" />
```

```
<EditText  
    android:id="@+id/editTextResponse"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_below="@id/textViewReceivedMessage"  
    android:hint="Enter response" />
```

```
<Button  
    android:id="@+id/buttonSendResponse"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_below="@id/editTextResponse"  
    android:layout_alignParentEnd="true"  
    android:text="Send" />
```

```
</RelativeLayout>
```

```
package com.example.myapp;
```

```
import android.content.Intent;
```

```
import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;


import androidx.appcompat.app.AppCompatActivity;


public class SecondActivity extends AppCompatActivity {


    private TextView textViewReceivedMessage;

    private EditText editTextResponse;

    private Button buttonSendResponse;


    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_second);


        textViewReceivedMessage = findViewById(R.id.textViewReceivedMessage);

        editTextResponse = findViewById(R.id.editTextResponse);

        buttonSendResponse = findViewById(R.id.buttonSendResponse);


        // Get the message from the intent

        Intent intent = getIntent();
```

```

String message = intent.getStringExtra("MESSAGE");

textViewReceivedMessage.setText("Received message: " + message);


buttonSendResponse.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        String response = editTextResponse.getText().toString().trim();

        Intent replyIntent = new Intent();

        replyIntent.putExtra("RESPONSE", response);

        setResult(RESULT_OK, replyIntent);

        finish();

    }

});

}

}

```

Set 2:

```

public class Country {

    private String name;

    private String flagUrl;

    private long population;

```

```

public Country(String name, String flagUrl, long population) {

    this.name = name;

    this.flagUrl = flagUrl;

    this.population = population;
}

public String getName() {

    return name;
}

public String getFlagUrl() {

    return flagUrl;
}

public long getPopulation() {

    return population;
}
}

```

Customlistview

```

public class CountryAdapter extends ArrayAdapter<Country> {

    private Context context;

    private List<Country> countryList;

```

```

public CountryAdapter(Context context, List<Country> countryList) {

    super(context, R.layout.list_item_country, countryList);

    this.context = context;

    this.countryList = countryList;
}

@NonNull

@Override

public View getView(int position, @Nullable View convertView, @NonNull ViewGroup parent) {

    if (convertView == null) {

        convertView = LayoutInflater.from(context).inflate(R.layout.list_item_country, parent, false);

    }

    ImageView imageViewFlag = convertView.findViewById(R.id.imageViewFlag);

    TextView textViewName = convertView.findViewById(R.id.textViewName);

    TextView textViewPopulation = convertView.findViewById(R.id.textViewPopulation);

    Country country = countryList.get(position);

    // Load flag image using Picasso library

    Picasso.get().load(country.getFlagUrl()).into(imageViewFlag);

    textViewName.setText(country.getName());

    textViewPopulation.setText("Population: " +
        NumberFormat.getInstance().format(country.getPopulation()));

```



```
        return convertView;
    }
}
```

Listitemxml

```
<?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:padding="16dp">

    <ImageView

        android:id="@+id/imageViewFlag"

        android:layout_width="50dp"

        android:layout_height="50dp"

        android:scaleType="centerCrop"

        android:src="@drawable/ic_launcher_foreground" />

    <LinearLayout

        android:layout_width="0dp"

        android:layout_height="wrap_content"

        android:layout_weight="1"

        android:orientation="vertical"

        android:layout_marginStart="16dp">
```

```
<TextView  
    android:id="@+id/textViewName"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:textSize="16sp"  
    android:textStyle="bold" />
```

```
<TextView  
    android:id="@+id/textViewPopulation"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:textSize="14sp" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

Mainactivity

```
public class MainActivity extends AppCompatActivity {
```

```
    private ListView listViewCountries;
```

```
    private CountryAdapter countryAdapter;
```

```
    private List<Country> countryList;
```

```
@Override
```

```

protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);


    listViewCountries = findViewById(R.id.listViewCountries);


    // Prepare dummy data (replace with your actual country data)

    countryList = new ArrayList<>();

    countryList.add(new Country("United States", "https://www.countryflags.io/US/shiny/64.png",
331449281));

    countryList.add(new Country("China", "https://www.countryflags.io/CN/shiny/64.png",
1444216107));

    countryList.add(new Country("India", "https://www.countryflags.io/IN/shiny/64.png",
1393409038));


    // Initialize adapter

    countryAdapter = new CountryAdapter(this, countryList);


    // Set adapter to ListView

    listViewCountries.setAdapter(countryAdapter);

}
}

```

Activitymain

```

<?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"
android:padding="16dp">
```

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

```
</RelativeLayout>
```

Set 5

```
<!-- dialog_enter_name.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="vertical"
    android:padding="16dp">

    <EditText
        android:id="@+id/editTextName"
```

```
    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    android:hint="Enter Name" />
```

```
<Button
```

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

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:layout_marginTop="16dp"

    android:text="Submit" />
```

```
</LinearLayout>
```

Mainactivity

```
import android.content.DialogInterface;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;


import androidx.appcompat.app.AlertDialog;

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

```
public class MainActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);


        Button buttonEnterName = findViewById(R.id.buttonEnterName);

        Button buttonConfirmInternet = findViewById(R.id.buttonConfirmInternet);


        buttonEnterName.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                showEnterNameDialog();

            }

        });


        buttonConfirmInternet.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                showConfirmInternetDialog();

            }

        });

    }

}
```

```
private void showEnterNameDialog() {

    AlertDialog.Builder dialogBuilder = new AlertDialog.Builder(this);

    LayoutInflater inflater = this.getLayoutInflater();

    View dialogView = inflater.inflate(R.layout.dialog_enter_name, null);

    dialogBuilder.setView(dialogView);


    EditText editTextName = dialogView.findViewById(R.id.editTextName);

    Button buttonSubmit = dialogView.findViewById(R.id.buttonSubmit);


    AlertDialog dialog = dialogBuilder.create();

    dialog.show();


    buttonSubmit.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View v) {

            String enteredName = editTextName.getText().toString().trim();

            // Handle the entered name (e.g., display in a Toast)

            if (!enteredName.isEmpty()) {

                // Do something with the entered name

                dialog.dismiss(); // Close the dialog

            } else {

                // Show error message if name is empty

                editTextName.setError("Please enter a name");

            }

        }

    });

}
```

```
    }  
    });  
}
```

```
private void showConfirmInternetDialog() {  
    AlertDialog.Builder dialogBuilder = new AlertDialog.Builder(this);  
  
    dialogBuilder.setMessage("Are you sure you want to go on the internet?");  
  
    dialogBuilder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {  
  
        @Override  
  
        public void onClick(DialogInterface dialog, int which) {  
  
            // Handle "Yes" button click (e.g., open a web browser)  
  
            dialog.dismiss(); // Close the dialog  
  
        }  
  
    });  
  
    dialogBuilder.setNegativeButton("No", new DialogInterface.OnClickListener() {  
  
        @Override  
  
        public void onClick(DialogInterface dialog, int which) {  
  
            // Handle "No" button click (if needed)  
  
            dialog.dismiss(); // Close the dialog  
  
        }  
  
    });  
  
    AlertDialog dialog = dialogBuilder.create();  
  
    dialog.show();  
}
```



```
}
```

Activity main

```
<!-- activity_main.xml -->
```

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

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

```
    android:layout_height="match_parent"
```

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

```
<Button
```

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

```
    android:layout_width="wrap_content"
```

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

```
    android:text="Enter Name"
```

```
    android:layout_centerHorizontal="true"
```

```
    android:layout_marginBottom="32dp"/>
```

```
<Button
```

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

```
    android:layout_width="wrap_content"
```

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

```
    android:text="Confirm Internet"
```

```
    android:layout_below="@id/buttonEnterName"
```

```
android:layout_centerHorizontal="true"/>
```

```
</RelativeLayout>
```