

Q1. Create an android application to demonstrate the working of Implicit Intent. Use uri parsing. CO3

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

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/txt"
        android:text="Implicit Intent Example"
        android:textSize="25dp"
    />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/uri"
        android:hint="Enter URL"
```

```
        android:textSize="25dp"
    />
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/btn"
    android:text="Open"
    android:textSize="25dp"
    />
</LinearLayout>
```

MainActivity.java

```
package com.example.intentforuri;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
```

```

public class MainActivity extends AppCompatActivity {

    EditText uri;

    Button btn;

    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        uri=findViewById(R.id.uri);

        btn=findViewById(R.id.btn);

        btn.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {

                String strurl=uri.getText().toString();

                Intent i = new Intent(Intent.ACTION_VIEW);

                Uri.parse(strurl);

                startActivity(i);

            }

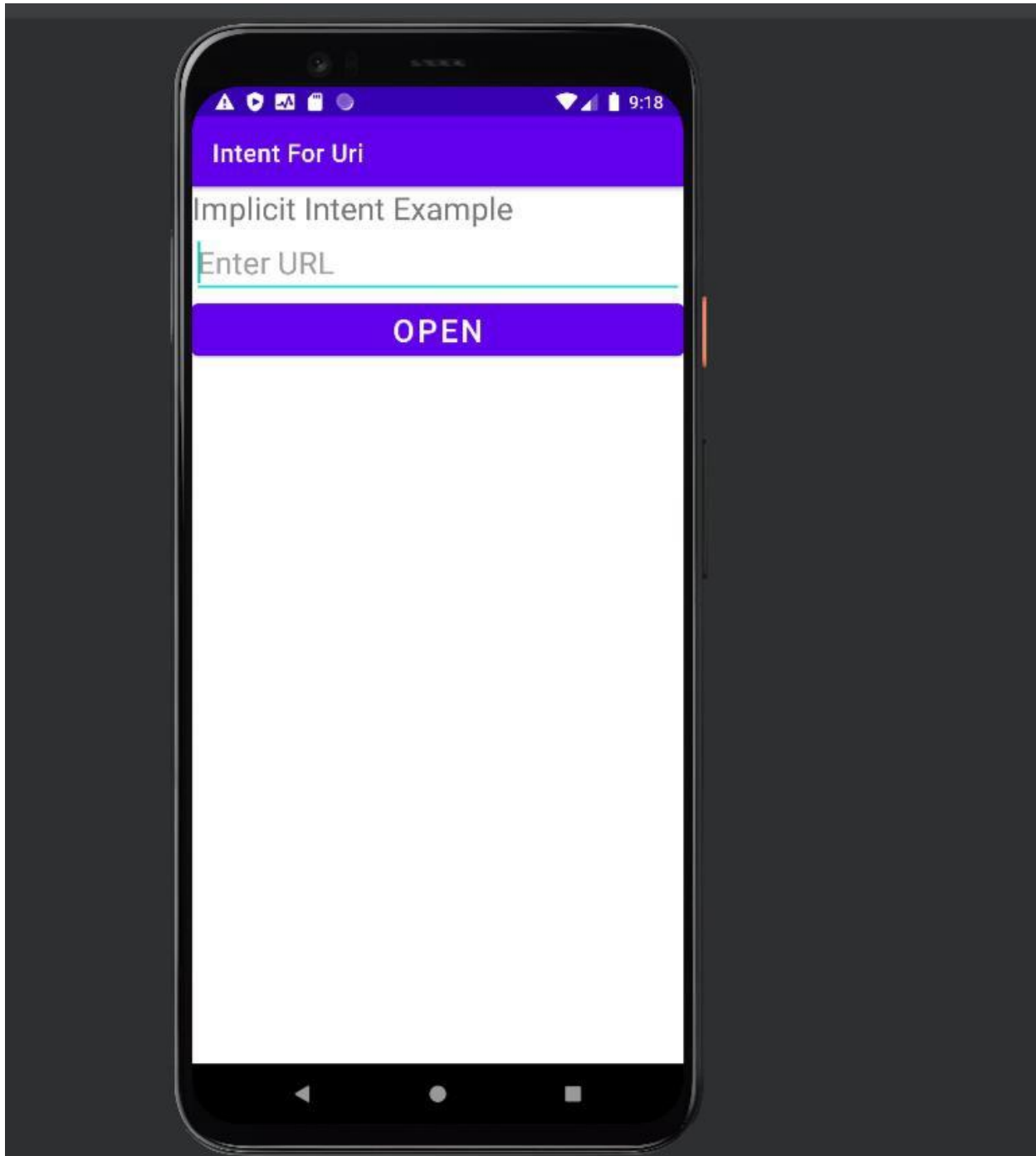
        });

    }
}

```

```
}
```

Output:



Q2. Create an android application to demonstrate the working of Implicit Intent.
Use Phone calling.CO3

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

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Phone Calling Intent"
        android:textSize="25dp"
    />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/num"
        android:hint="Enter Number"
```

```
        android:textSize="25dp"

    />

<Button

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    android:id="@+id/call"

    android:text="Call"

    android:textSize="25dp"

    />

</LinearLayout>
```

MainActivity.java

```
package com.example.phonecallapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
```

```

public class MainActivity extends AppCompatActivity {

    EditText num;

    Button call;

    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        num=findViewById(R.id.num);

        call=findViewById(R.id.call);

        call.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {

                String phonenumber=num.getText().toString();

                Intent i =new Intent(Intent.ACTION_CALL);

                i.setData(Uri.parse("tel:"+phonenumber));

                startActivity(i);

            }

        });

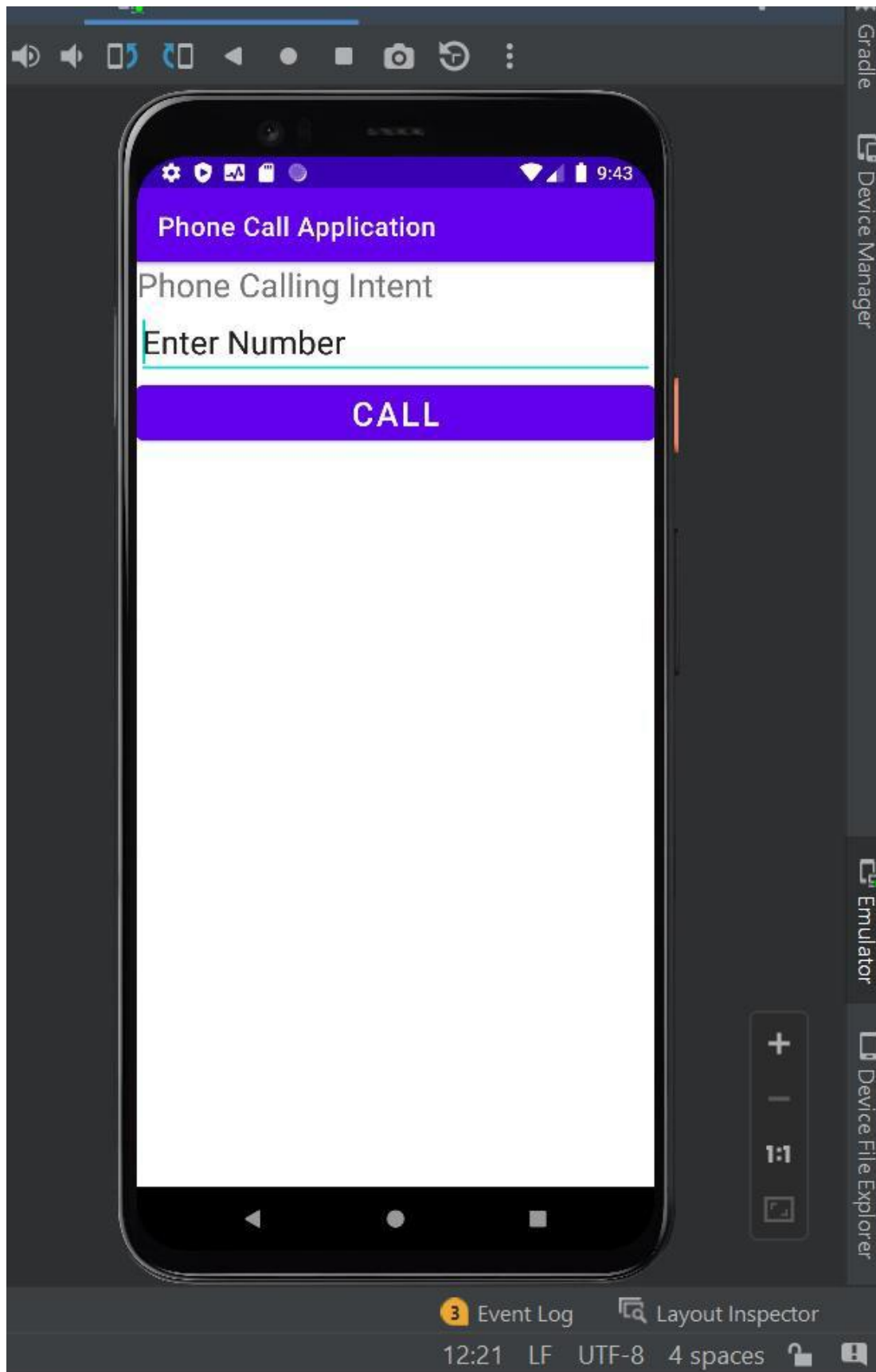
    }
}

```

```
}
```

AndroidManifest.xml

```
<uses-permission android:name="android.permission.CALL_PHONE"/>
```

Q3.Create an android application to demonstrate the working of Implicit Intent.
Use Email. CO3

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

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Sending Email Using Intent"
        android:textSize="25dp"
    />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/email"
        android:hint="Enter email"
```

```
android:textSize="25dp"
```

```
/>
```

```
<EditText
```

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

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

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

```
android:hint="Enter Subject"
```

```
android:textSize="25dp"
```

```
/>
```

```
<EditText
```

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

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

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

```
android:hint="Enter Message"
```

```
android:textSize="25dp"/>
```

```
<TextView
```

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

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

```
android:id="@+id/txt1"
```

```
/>
```

```
<TextView
```

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

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

```
        android:id="@+id/txt2"

    />

<TextView

    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/txt3"

    />

<Button

    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/btn"
    android:text="Send"
    android:textSize="25dp"

    />

</LinearLayout>
```

MainActivity.java

```
package com.example.email;
```

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

```
import android.annotation.SuppressLint;
```

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

```

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;


public class MainActivity extends AppCompatActivity {

    EditText email,subject,msg;

    Button btn;


    @SuppressWarnings("MissingInflatedId")
    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);


        email=findViewById(R.id.email);

        subject=findViewById(R.id.subject);

        msg=findViewById(R.id.msg);

        btn=findViewById(R.id.btn);


        btn.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

```

```

String mail=email.getText().toString();
String sub=subject.getText().toString();
String message=msg.getText().toString();


Intent i=new Intent(Intent.ACTION_SEND_MULTIPLE);
String[] emailList=mail.split(",");


i.putExtra(Intent.EXTRA_EMAIL,emailList);
i.putExtra(Intent.EXTRA_SUBJECT,sub);
i.putExtra(Intent.EXTRA_TEXT,message);


i.setType("message/rfc822");


startActivity(Intent.createChooser(i,"Choose Email"));

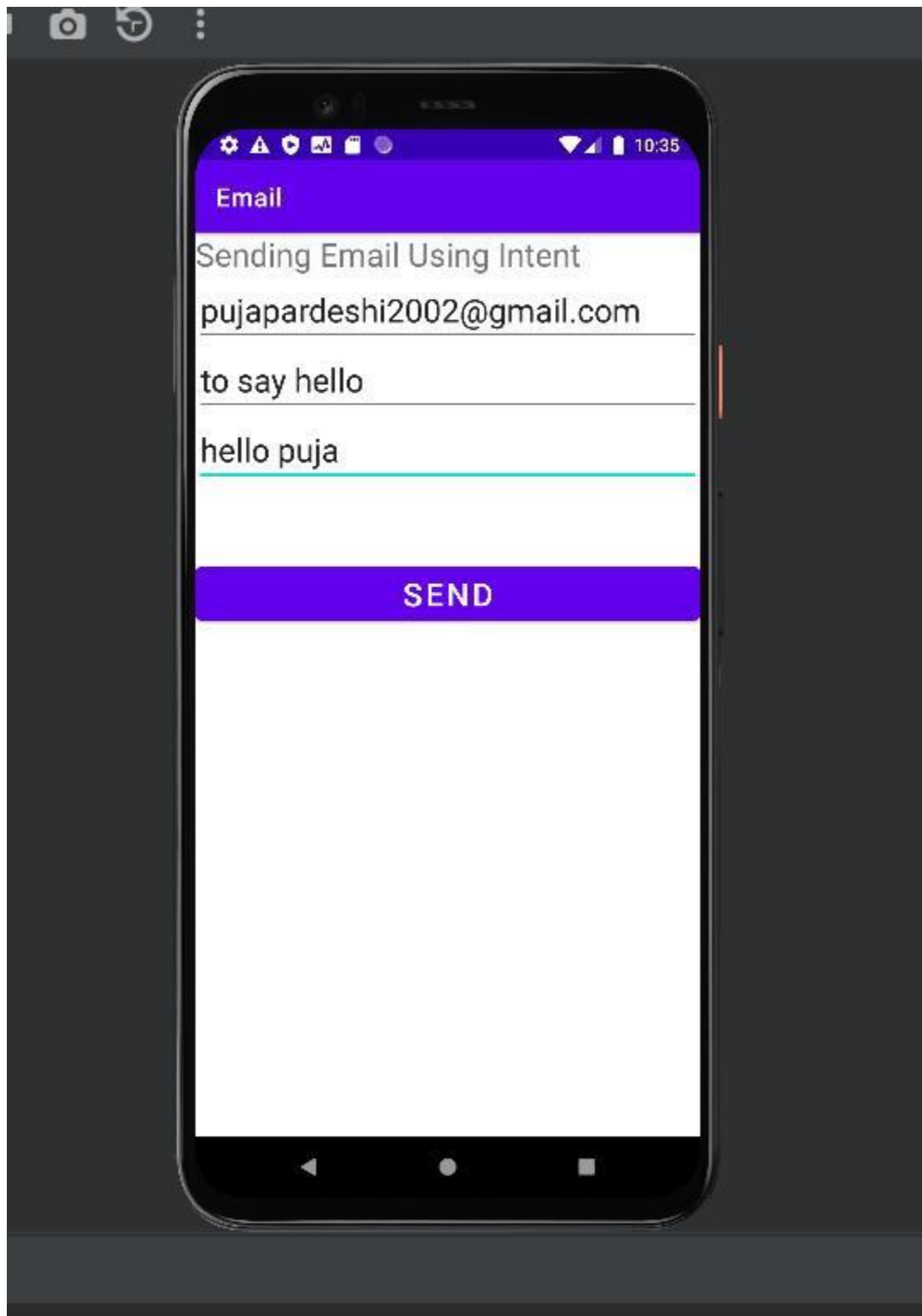

    }

});


}

}

```



Q4. Create an android application to demonstrate the working of Explicit intent where insert User

name and age from user and display both content on the second activity. use putExtra and getExtra. CO3

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

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Sending Data"
        android:id="@+id/txt1"
        android:textSize="25dp"
    />

    <EditText
        android:layout_width="match_parent"
```



```
        android:layout_height="wrap_content"
        android:id="@+id/name"
        android:hint="Enter Name"
        android:textSize="25dp"
    />
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/age"
    android:hint="Enter Age"
    android:textSize="25dp"
    />
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/btn"
    android:text="Submit"
    android:textSize="25dp"
    />
</LinearLayout>
```

MainActivity.java :

```
package com.example.explicitintent;
```

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

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    EditText name,age;

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

    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        name=findViewById(R.id.name);
        age=findViewById(R.id.age);
        btn=findViewById(R.id.btn);
```

```

btn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String ename=name.getText().toString();
        int eage=Integer.parseInt(age.getText().toString());

        Intent i=new Intent(getApplicationContext(),MainActivity2.class);
        i.putExtra("myname",ename);
        i.putExtra("myage",eage);
        startActivity(i);

    }
});
}
}

```

activity_main2.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"
        tools:context=".MainActivity2">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/txt"
        android:text="Hello"
        android:textSize="25dp"
    />
</LinearLayout>

MainActivity2.java:
package com.example.explicitintent;

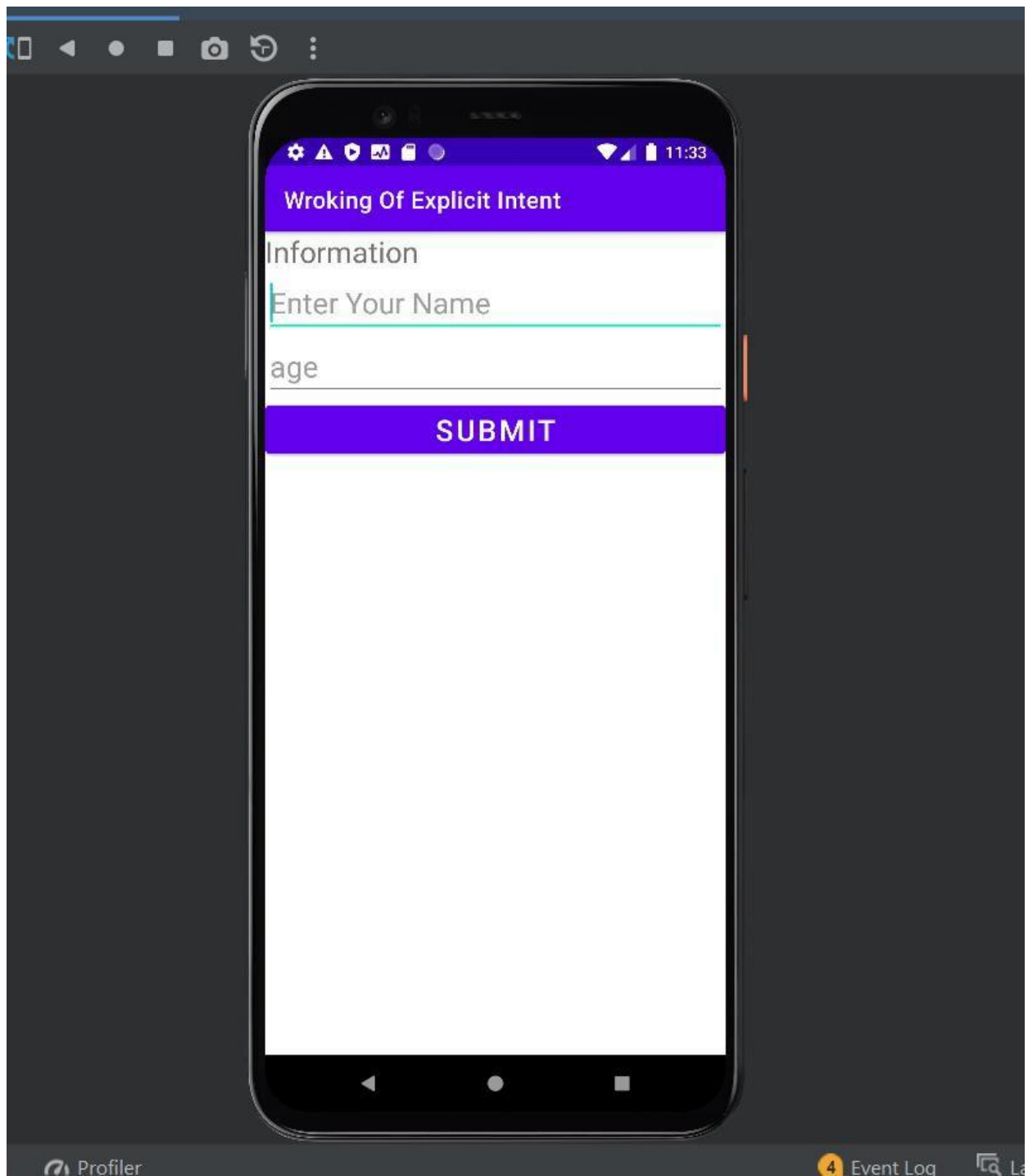
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {
    TextView txt;

```

```
@Override  
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main2);  
  
    Intent intent=getIntent();  
  
    String n=intent.getStringExtra("myname");  
    txt.setText(n);  
  
    int a=intent.getIntExtra("myage",0);  
    txt.setText(a);  
}  
}
```



Q6.Create an android application to demonstrate working of simple adapter. CO3

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

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Simple Adapter Example"
        android:textSize="25dp"
    />

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

</LinearLayout>
```

MainActivity.java :

```
package com.example.simpleadapter;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.ListView;

public class MainActivity extends AppCompatActivity {

    ListView listview;

    String[] Languagelist={"Android","Java","C++","Python"};

    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {

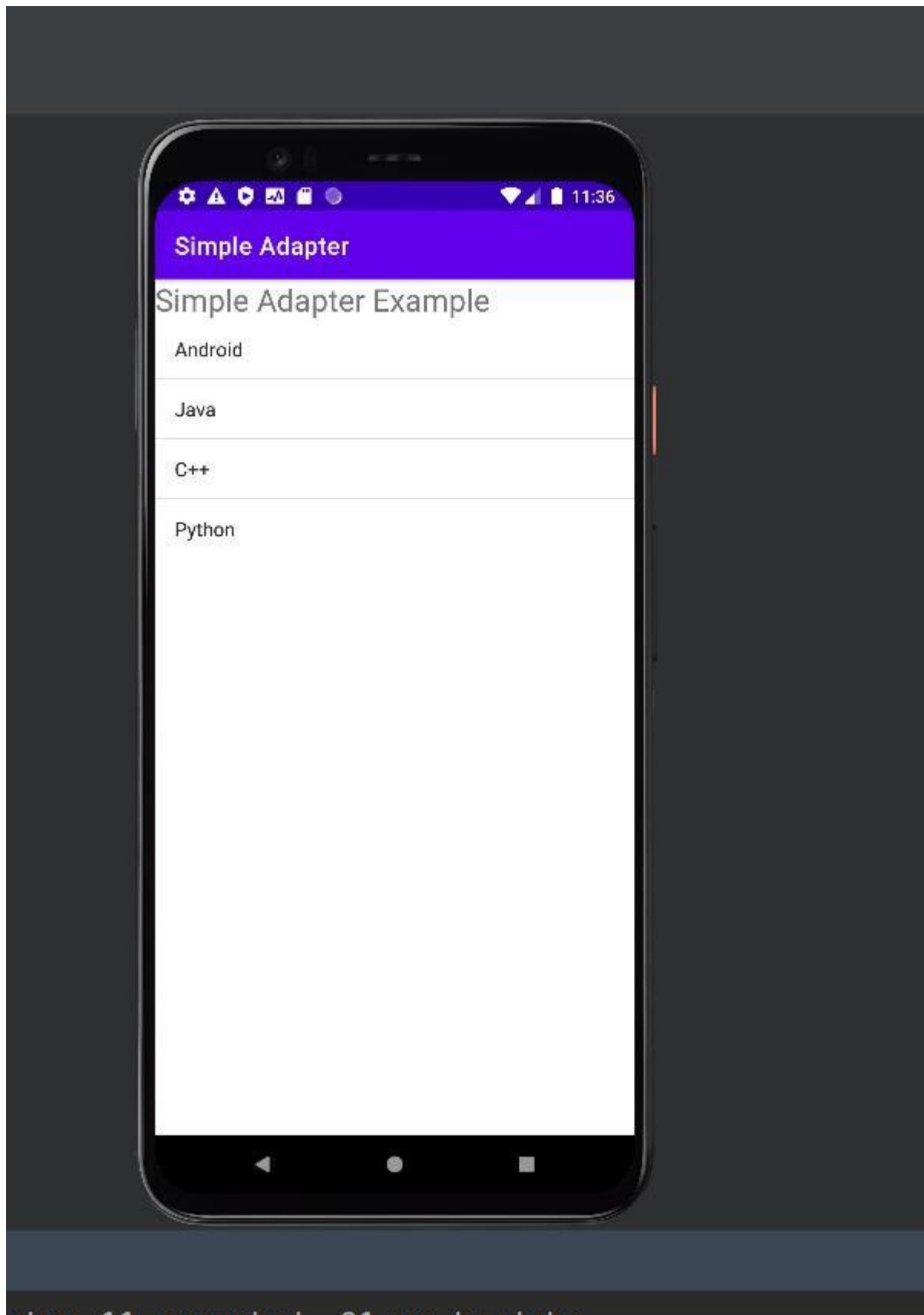
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        ArrayAdapter adapter=new ArrayAdapter<String>(this,
        android.R.layout.simple_list_item_1,Languagelist);
```



```
        listView=findViewById(R.id.listView);  
listView.setAdapter(adapter);  
    }  
}
```



Q7. Create an android application to demonstrate the working of custom adapter use string.xml resource file. CO3

activity_main.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="match_parent"
    android:orientation="vertical">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/txt"
        android:text="Hello"
        android:textSize="25dp"
    />
</LinearLayout>
```

MainActivity.java :

```
package com.example.customadapter;
```

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

```
import android.annotation.SuppressLint;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.ListView;

import android.widget.TextView;

import android.widget.Toast;


public class MainActivity extends AppCompatActivity {

    ListView listview;

    String[] mylist;

    TextView txt;


    @SuppressWarnings("MissingInflatedId")

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);


        listview=findViewById(R.id.listview);

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

```

        mylist=getResources().getStringArray(R.array.listOfCountries);

        final ArrayAdapter<String> adapter=new
ArrayAdapter<String>(this,R.layout.list_item,R.id.txt,mylist);

        listview.setAdapter(adapter);


        listview.setOnItemClickListener(new AdapterView.OnItemClickListener() {

            @Override

            public void onItemClick(AdapterView<?> parent, View view, int i, long id)
            {

                String value=adapter.getItem(i);

                Toast.makeText(MainActivity.this,value,
Toast.LENGTH_SHORT).show();

            }

        });

    }

}

```

list_item.xml:

```

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

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

    android:layout_width="match_parent"

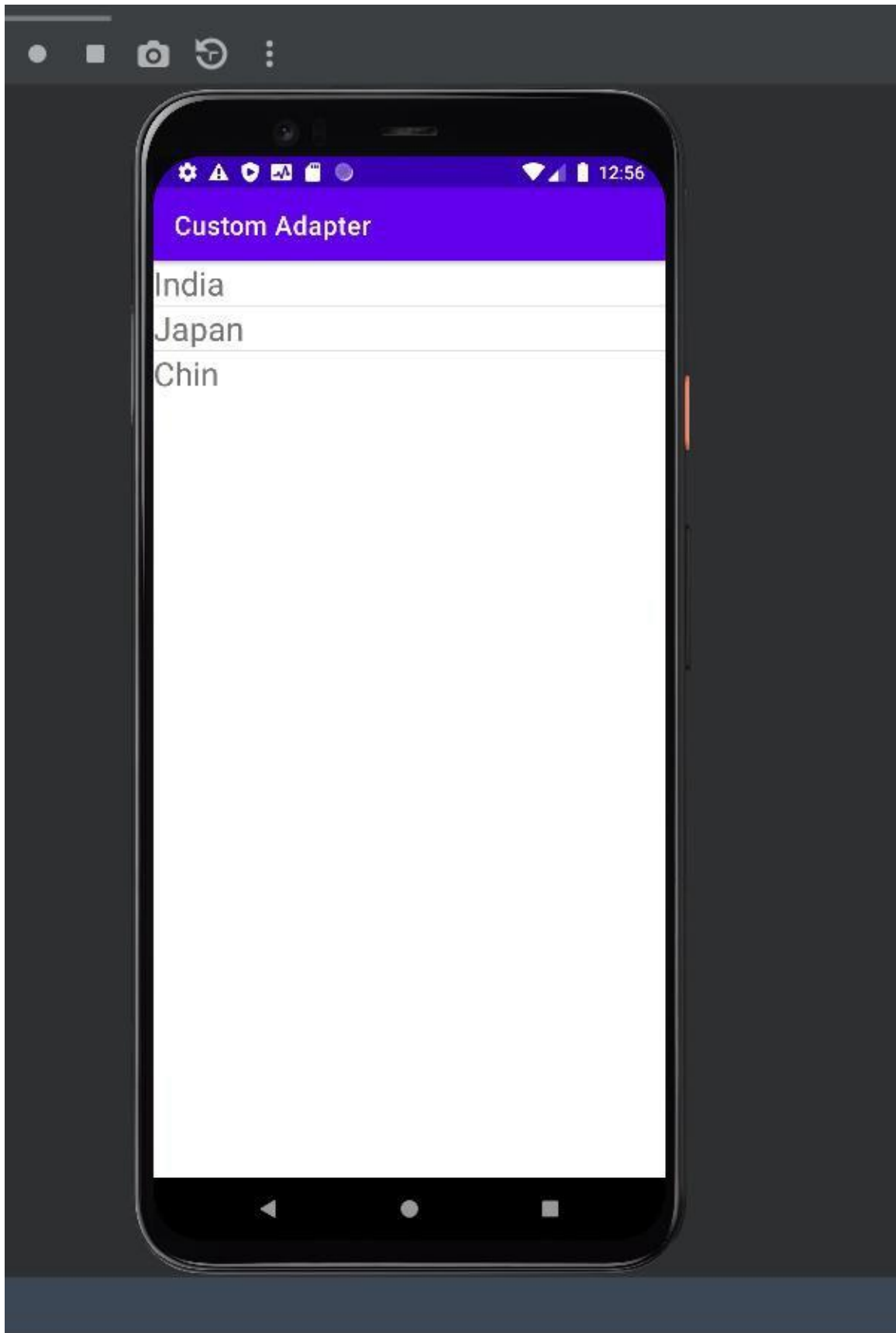
```

```

        android:layout_height="match_parent"
        android:orientation="vertical">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/txt"
            android:text="Hello"
            android:textSize="25dp"
        />
    </LinearLayout>

Strings.xml:
<resources>
    <string name="app_name">Custom Adapter</string>
    <string-array name="listOfCountries">
        <item>India</item>
        <item>Japan</item>
        <item>Chin</item>
    </string-array>
</resources>

```



Q9. Create an android application to implement Date Picker dialog box. CO3

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">

    <DatePicker
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/dp"
    />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/btn"
        android:text="Get Date"
        android:textSize="25dp"
        android:layout_marginTop="500dp"
    />
```



```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:id="@+id/txt"  
    android:textSize="25dp"  
    android:layout_marginTop="600dp"  
/>
```

```
</RelativeLayout>
```

MainActivity.java :

```
package com.example.datepickerapp;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.annotation.SuppressLint;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.DatePicker;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
    DatePicker dp;
```

```

    Button btn;

    TextView txt;

    @SuppressWarnings("MissingInflatedId")

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        txt=findViewById(R.id.txt);

        dp=findViewById(R.id.dp);

        btn=findViewById(R.id.btn);


        btn.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                txt.setText("Selected
Date:"+dp.getDayOfMonth()+"/"+(dp.getMonth()+1)+"/"+dp.getYear());

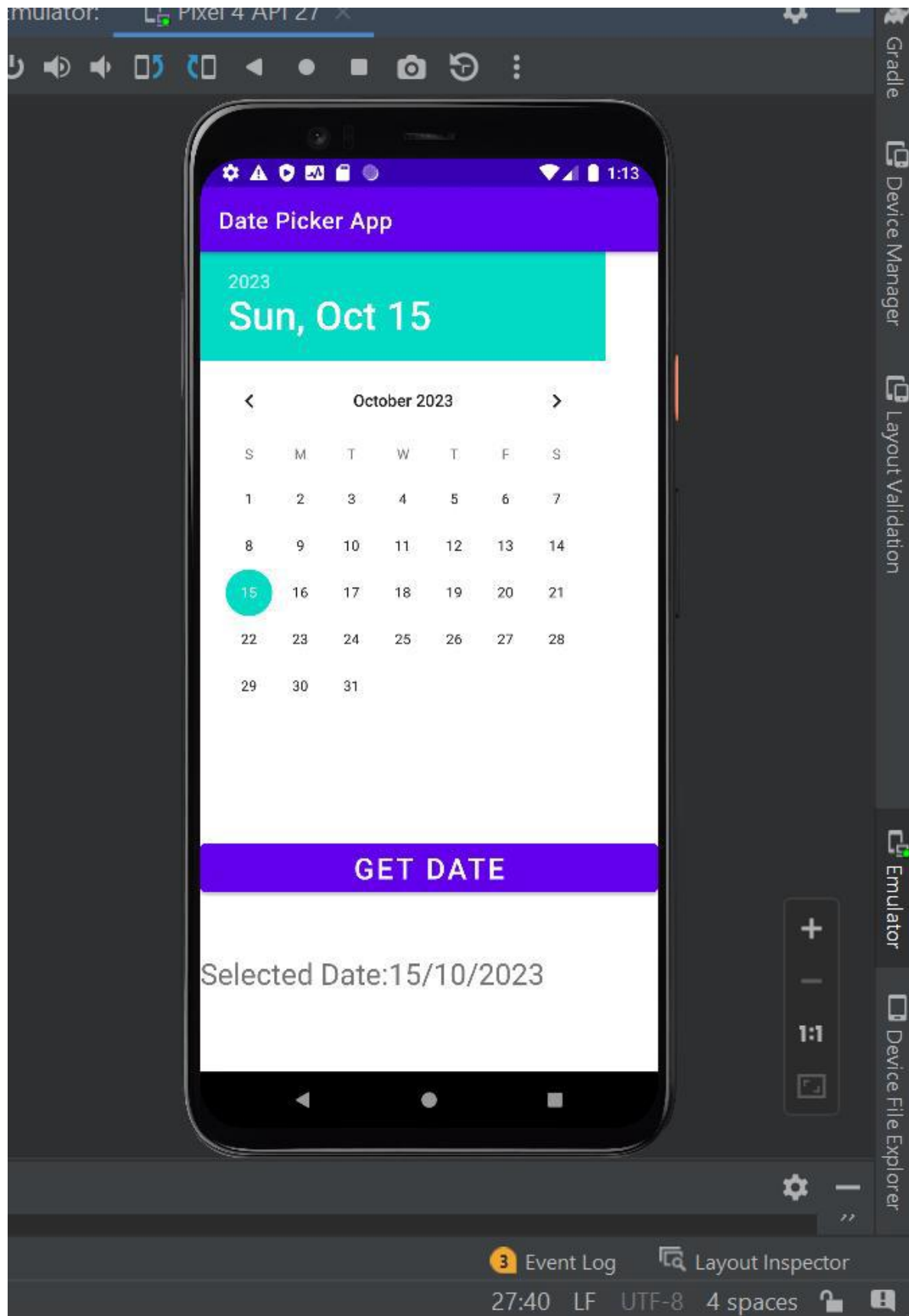
            }

        });

    }

}

```



Q11. Create an android application to implement Time picker. CO3

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">

    <TimePicker
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/tp"

    />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/btn"
        android:text="Get Time"
        android:textSize="25dp"
        android:layout_marginTop="500dp"

    />
```

```
<TextView  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:id="@+id/txt"  
    android:textSize="25dp"  
    android:layout_marginTop="600dp"  
/>
```

```
</RelativeLayout>
```

MainActivity.java :

```
package com.example.timepickerapp;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.annotation.SuppressLint;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
import android.widget.TimePicker;  
public class MainActivity extends AppCompatActivity {  
    TimePicker tp;  
    Button btn;
```

```

        TextView txt;

        @SuppressWarnings("MissingInflatedId")
        @Override

        protected void onCreate(Bundle savedInstanceState) {

            super.onCreate(savedInstanceState);

            setContentView(R.layout.activity_main);


            tp=findViewById(R.id.tp);
            btn=findViewById(R.id.btn);
            txt=findViewById(R.id.txt);


            btn.setOnClickListener(new View.OnClickListener() {

                @Override

                public void onClick(View v) {

                    txt.setText("Current
Time"+tp.getCurrentHour()+":"+tp.getCurrentMinute());

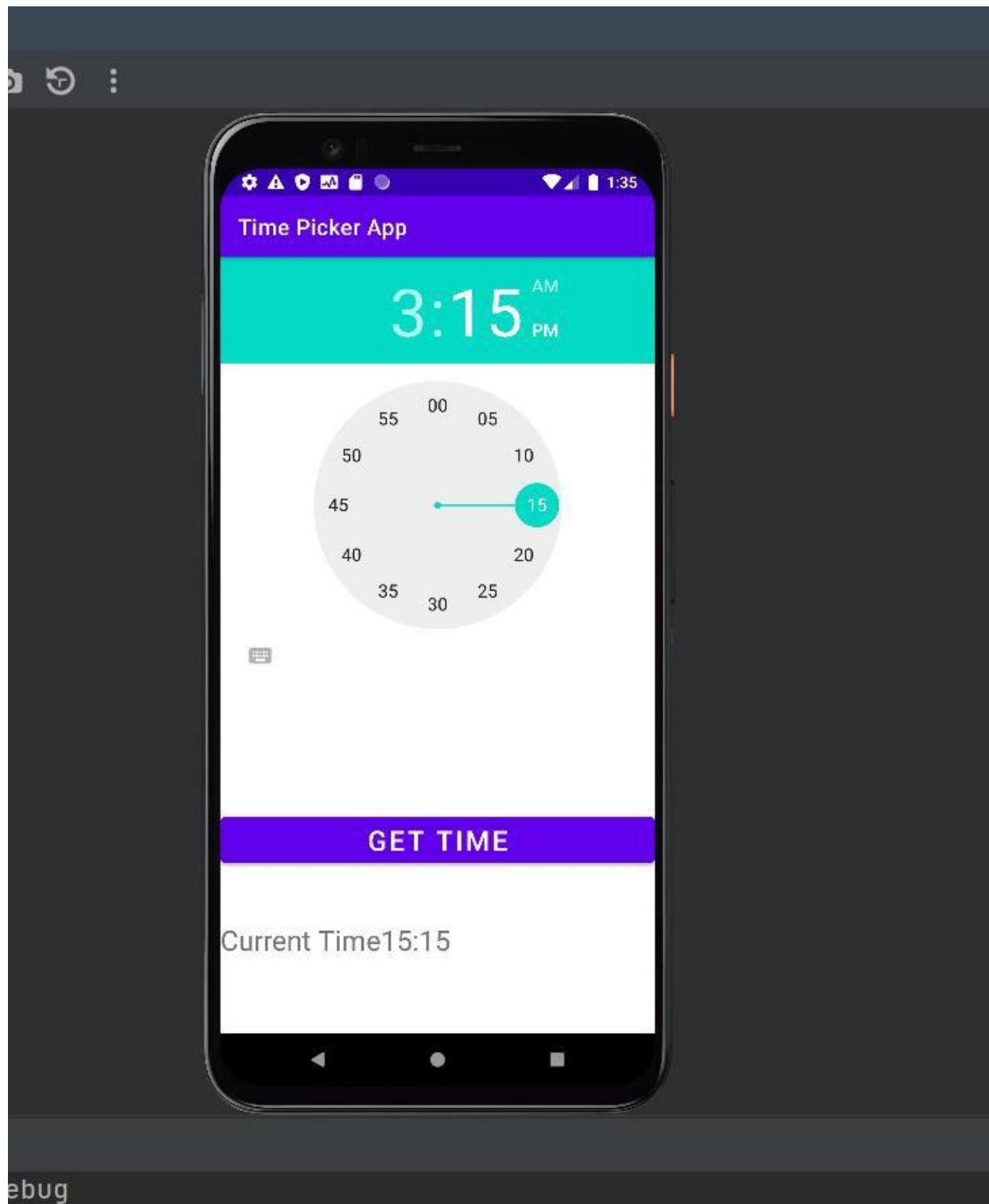
                }

            });

        }

    }

```



Q15. Create an android application to implement rating bar.CO3

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

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/txt"
        android:text="Rate Us"
        android:textSize="25dp"
    />

    <RatingBar
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/rt"
    />
```



```
<Button  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:id="@+id/btn"  
    android:text="Submit"  
    android:textSize="25dp"  
/>
```

```
</LinearLayout>
```

MainActivity.java :

```
package com.example.ratingbar;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.RatingBar;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
    RatingBar rt;  
    Button btn;
```

```

@Override

protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);


    rt=findViewById(R.id.rt);

    btn=findViewById(R.id.btn);


    btn.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View v) {

            String rate=String.valueOf(rt.getRating());

            Toast.makeText(MainActivity.this,rate, Toast.LENGTH_SHORT).show();

        }

    });

}
}

```

