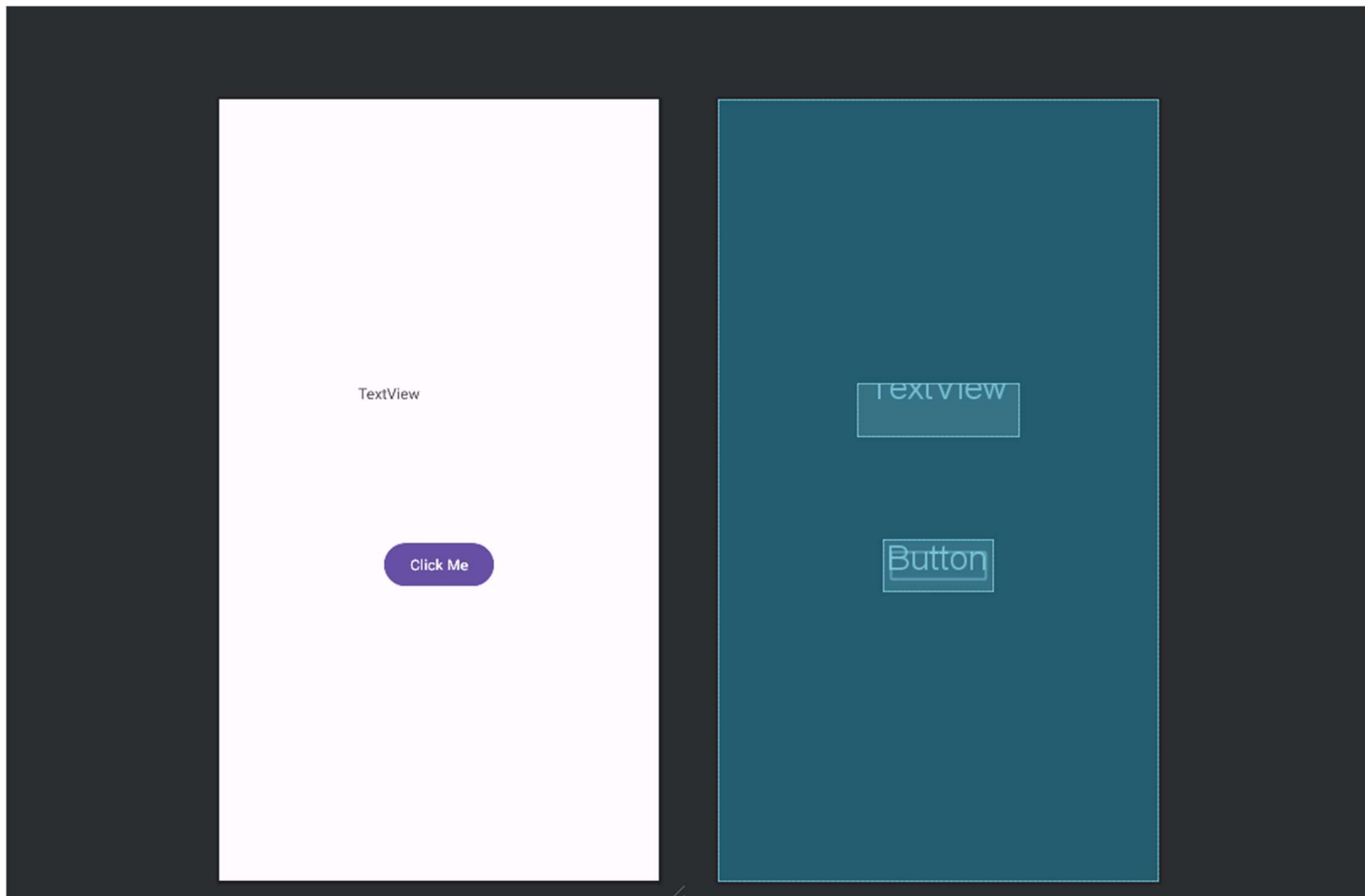


ANDROID APPLICATION PROGRAMMING

Assignment No.1

1) Write a Program to make Android application which having simple activity to shows any Message in TextView when click on Button “Click Me.”



```
package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    public Button bt1;

    public TextView tv1;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

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

```
bt1=(Button)findViewById(R.id.bt1);

tv1=(TextView)findViewById(R.id.tv1);

bt1.setOnClickListener(new View.OnClickListener() {

    @Override

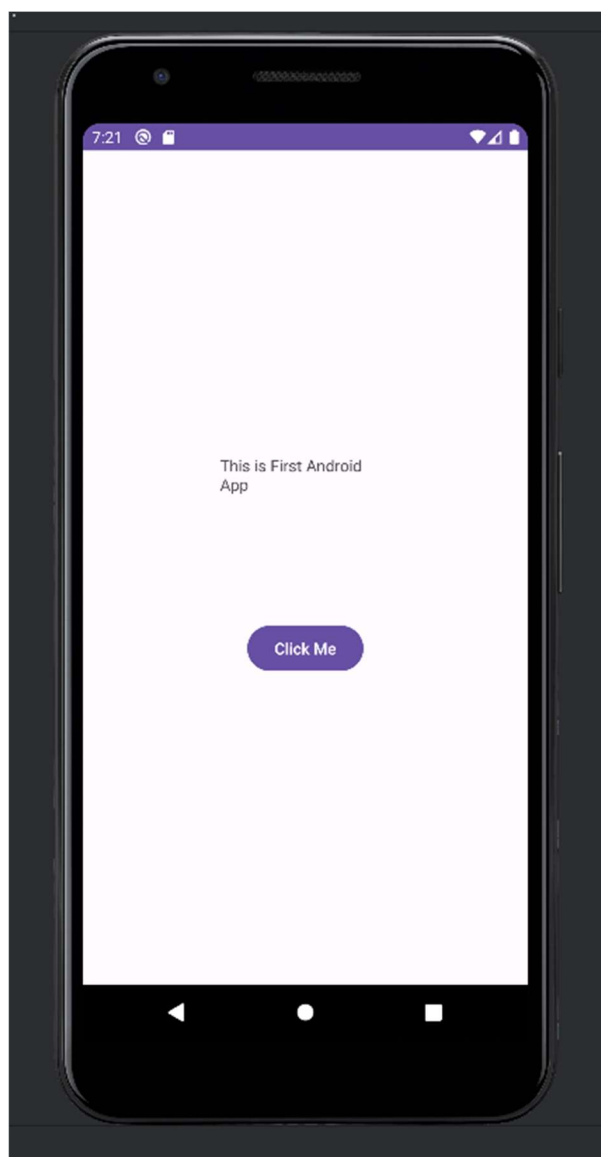
    public void onClick(View v) {

        tv1.setText("This is First Android App");

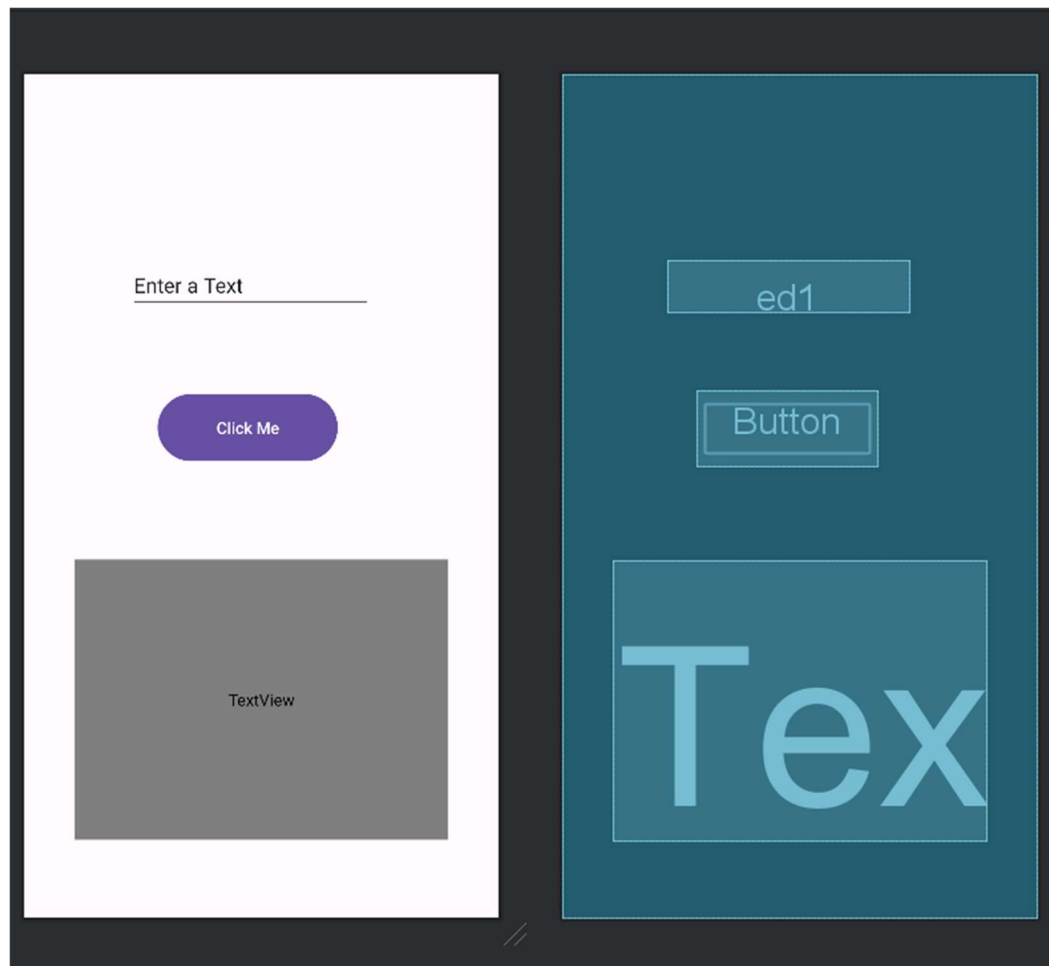
    }

});

}
```



2) Write a Program to make Android application which accept string by EditText and print that string in Uppercase, Bold, Size = 64dp, Center Alignment, Change Text Color when you click on Show Button.



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

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    public Button mybtn;

    public TextView mytv1;

    public EditText myed;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        mybtn=(Button)findViewById(R.id.btn1);

        mytv1=(TextView)findViewById(R.id.tv1);
```

```
myed=(EditText)findViewById(R.id.ed1);

mybtn.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        String s=myed.getText().toString();

        mytv1.setText(s);

    }

});

}
```



3) Write a Program to make Android application which shows use of all methods in Activity life cycle.

```
package example.javatpoint.com.activitylifecycle;
```

```
import android.app.Activity;
```

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

```
import android.util.Log;
```

```
public class MainActivity extends Activity {
```

```
    @Override
```

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

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

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

```
        Log.d("lifecycle","onCreate invoked");
```

```
    }
```

```
    @Override
```

```
    protected void onStart() {
```

```
        super.onStart();
```

```
        Log.d("lifecycle","onStart invoked");
```

```
    }
```

```
    @Override
```

```
    protected void onResume() {
```

```
        super.onResume();
```

```
        Log.d("lifecycle","onResume invoked");
```

```
    }
```

```
    @Override
```

```
    protected void onPause() {
```

```
        super.onPause();
```

```
        Log.d("lifecycle","onPause invoked");
```

```
    }
```

@Override

```
protected void onStop() {  
  
    super.onStop();  
  
    Log.d("lifecycle","onStop invoked");  
  
}
```

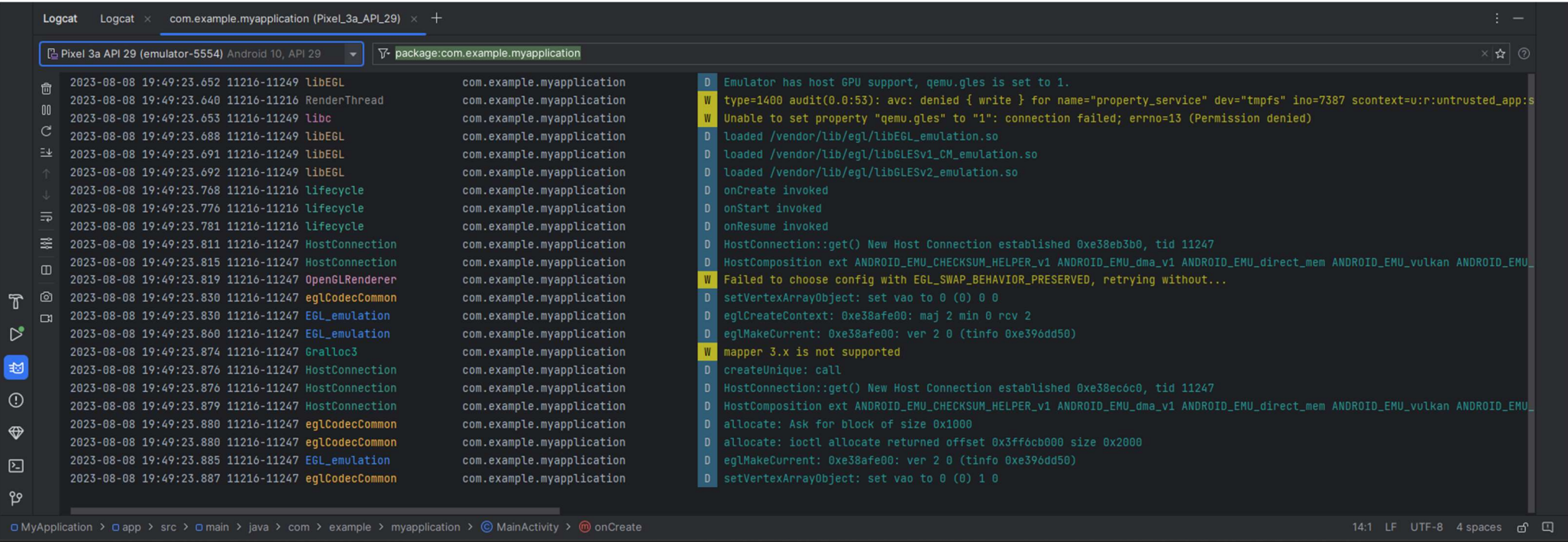
@Override

```
protected void onRestart() {  
  
    super.onRestart();  
  
    Log.d("lifecycle","onRestart invoked");  
  
}
```

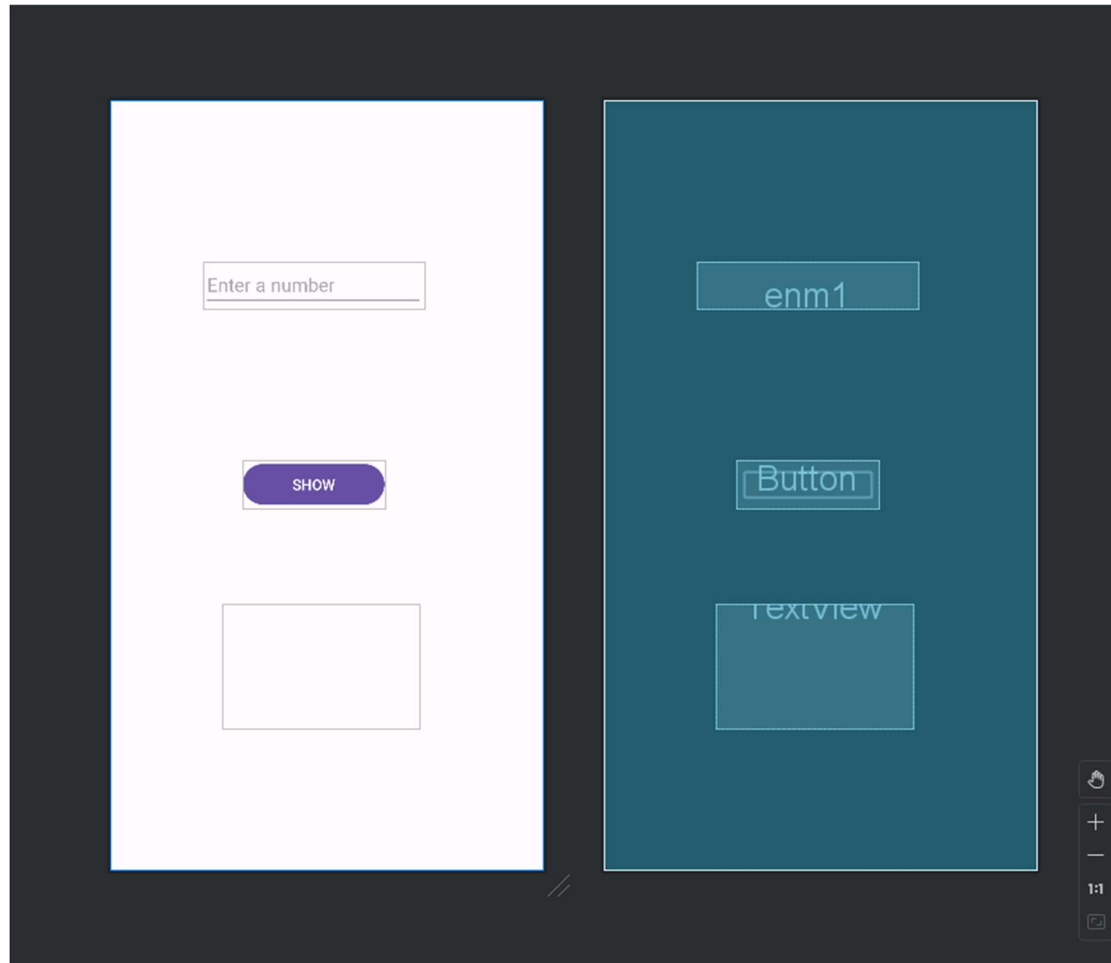
@Override

```
protected void onDestroy() {  
  
    super.onDestroy();  
  
    Log.d("lifecycle","onDestroy invoked");  
  
}
```

}



4) Write a Program to make Android application which accept the any number and finds square. Result display in TextView after click on Button Show.



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

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    public Button mybtn;

    public TextView mytv1;

    public EditText myed;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        mybtn=(Button)findViewById(R.id.btn1);

        mytv1=(TextView)findViewById(R.id.tv1);
```

```

myed=(EditText)findViewById(R.id.enm1);

mybtn.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        int n=Integer.parseInt(myed.getText().toString());

        int a=n*n;

        String s=String.valueOf(a);

        mytv1.setText(s);

        mytv1.setText("The square of " + n + " is " + s);

    }

});

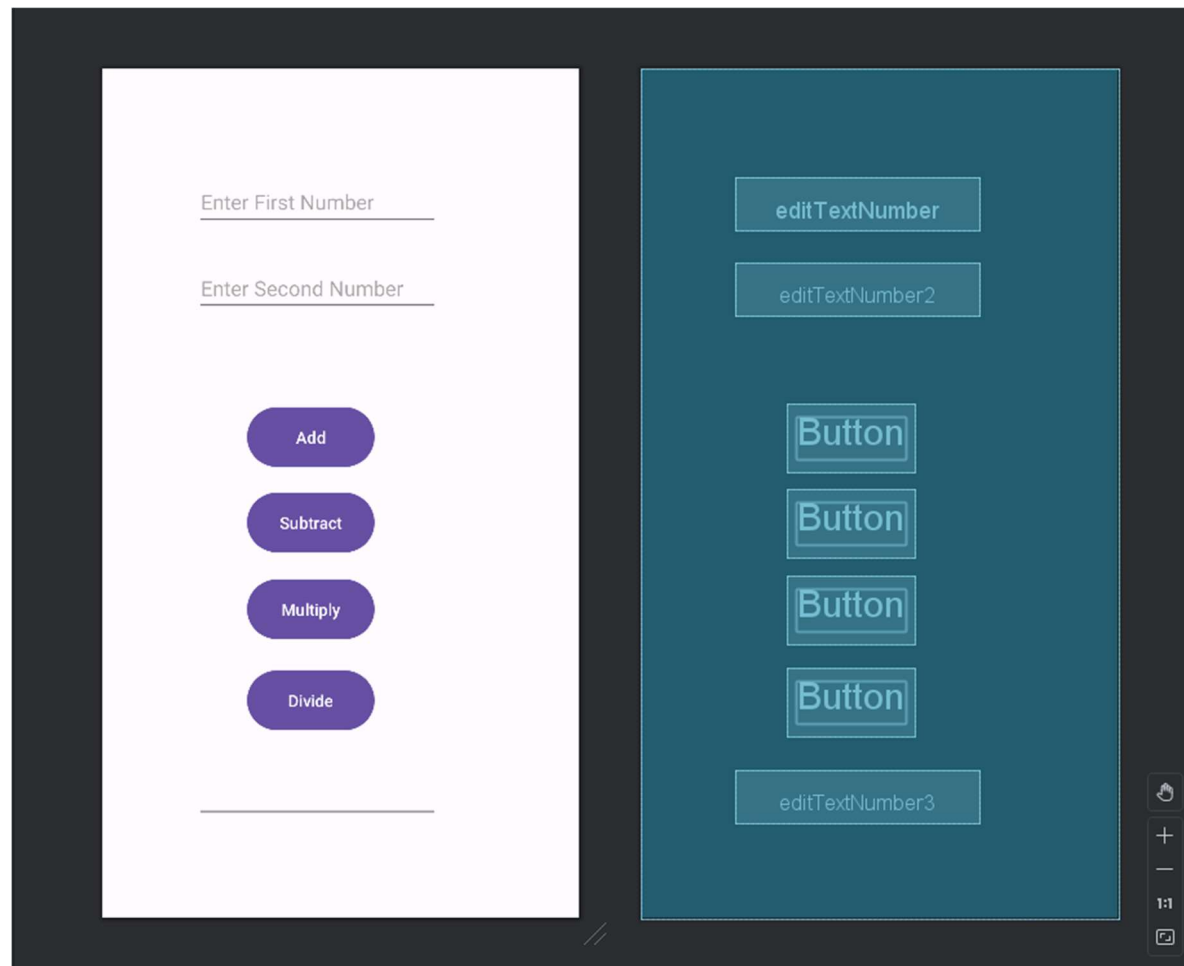
}

}

```



5) Write a Program to make Android application creates a simple calculator to make addition, subtraction, multiplication & division. which accept any two values and display results in EditText.



```
package com.example.simple_calculator;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

    }

    public void Add(View v){

        EditText et1 =(EditText)findViewById(R.id.editTextNumber);

        EditText et2 =(EditText)findViewById(R.id.editTextNumber2);

        EditText et3 =(EditText)findViewById(R.id.editTextNumber3);

        int n1 = Integer.parseInt(et1.getText().toString());
```

```
int n2 = Integer.parseInt(et2.getText().toString());

int result = n1+n2;

et3.setText("Total Value " +result);

}

public void Subtract(View v){

    EditText et1 =(EditText)findViewById(R.id.editTextNumber);

    EditText et2 =(EditText)findViewById(R.id.editTextNumber2);

    EditText et3 =(EditText)findViewById(R.id.editTextNumber3);

    int n1 = Integer.parseInt(et1.getText().toString());

    int n2 = Integer.parseInt(et2.getText().toString());

    int result = n1-n2;

    et3.setText("Subtract Value " +result);

}

public void Multiply(View v){

    EditText et1 =(EditText)findViewById(R.id.editTextNumber);

    EditText et2 =(EditText)findViewById(R.id.editTextNumber2);

    EditText et3 =(EditText)findViewById(R.id.editTextNumber3);

    int n1 = Integer.parseInt(et1.getText().toString());

    int n2 = Integer.parseInt(et2.getText().toString());

    int result = n1*n2;

    et3.setText("Multiply Value " +result);

}

public void Divide(View v){

    EditText et1 =(EditText)findViewById(R.id.editTextNumber);

    EditText et2 =(EditText)findViewById(R.id.editTextNumber2);

    EditText et3 =(EditText)findViewById(R.id.editTextNumber3);

    int n1 = Integer.parseInt(et1.getText().toString());
```

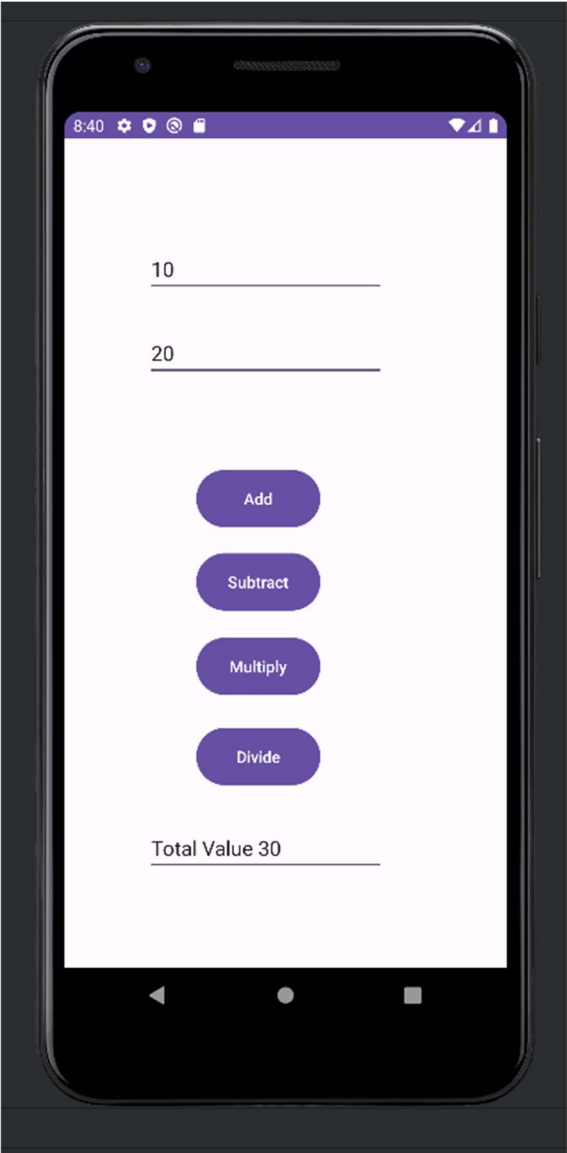
```
int n2 = Integer.parseInt(et2.getText().toString());

int result = n1/n2;

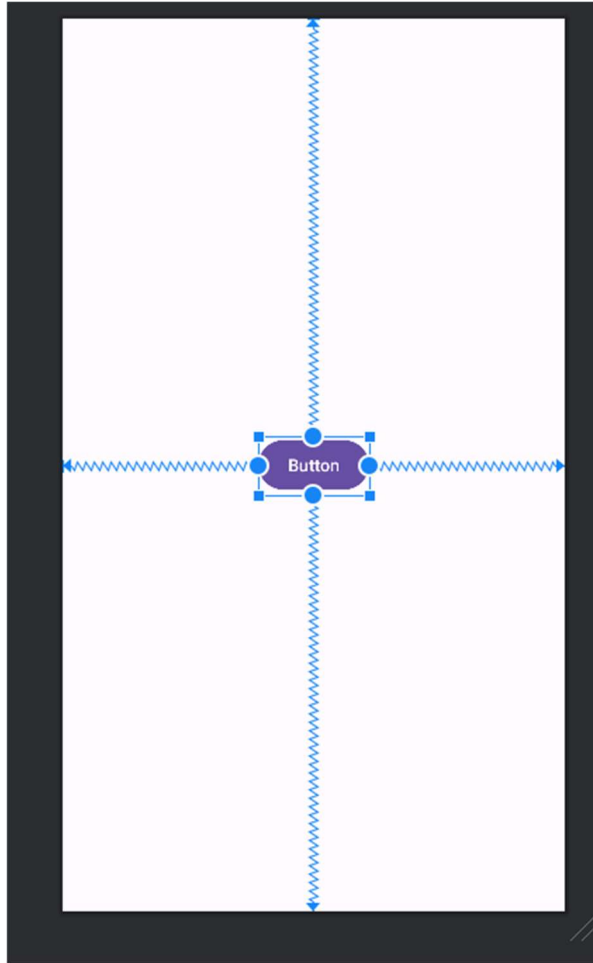
et3.setText("Divide Value " +result);

}

}
```



6)Write a Program to make Android Application which open the URL:"https://google.com" after click on Click Me Button (Use intent concept.)



```
package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.net.Uri;

import android.content.Intent;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

    public Button btn1;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        btn1=(Button) findViewById(R.id.mybtn);

        btn1.setOnClickListener(new View.OnClickListener() {

            @Override
```

```
public void onClick(View view) {  
  
    Intent i=new Intent(Intent.ACTION_VIEW, Uri.parse("https://www.google.com"));  
  
    startActivity(i);  
  
}  
  
});  
  
}  
  
}
```



7)Write a program to make Android Application to call various built in application (to Dial number, to open <http://www.amazon.com>)



```
package com.example.yourappname;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        findViewById(R.id.btnDial).setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                dialNumber("1234567890"); // Replace with the desired phone number

            }

        });

        findViewById(R.id.btnWebsite).setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                openWebsite("http://www.amazon.com");

            }

        });

    }

}
```

```

});

findViewById(R.id.btnOpenWebPage).setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        openWebPage("http://www.amazon.com");

    }

});

}

private void dialNumber(String phoneNumber) {

    Intent intent = new Intent(Intent.ACTION_DIAL, Uri.parse("tel:" + phoneNumber));

    startActivity(intent);

}

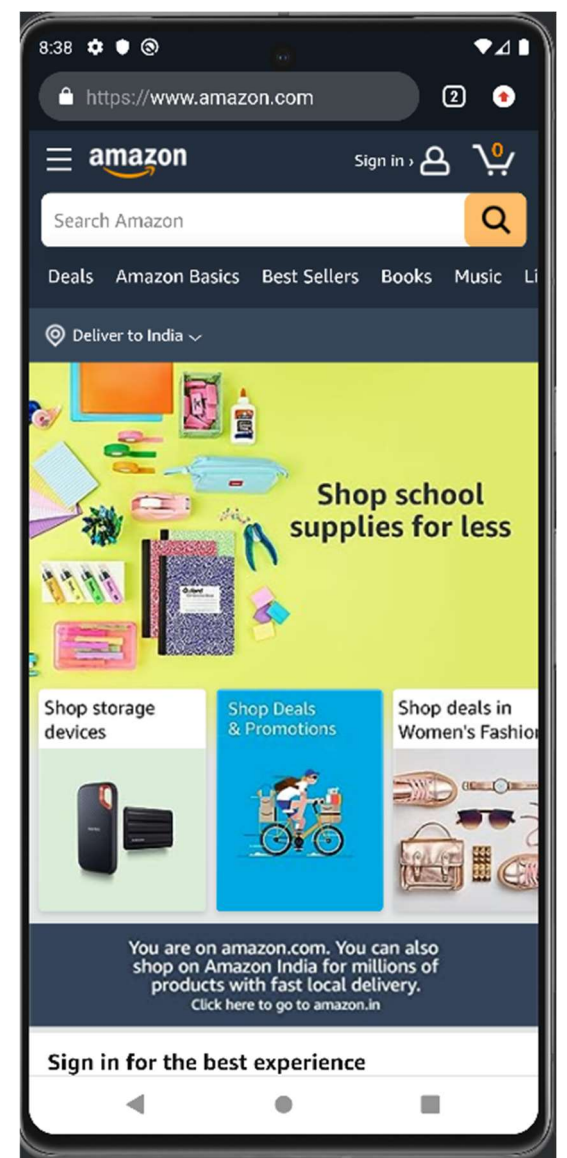
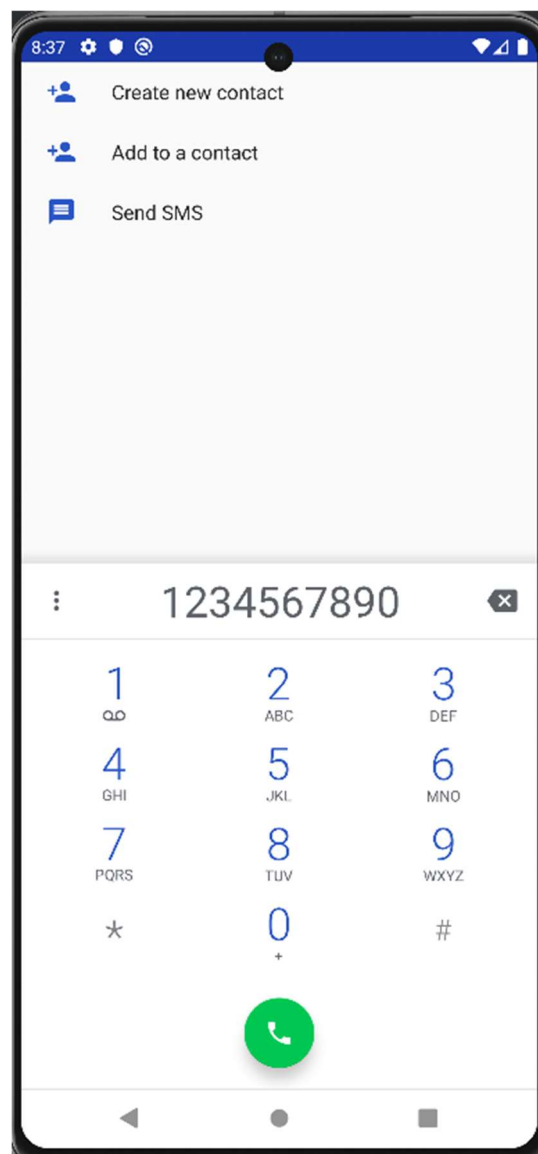
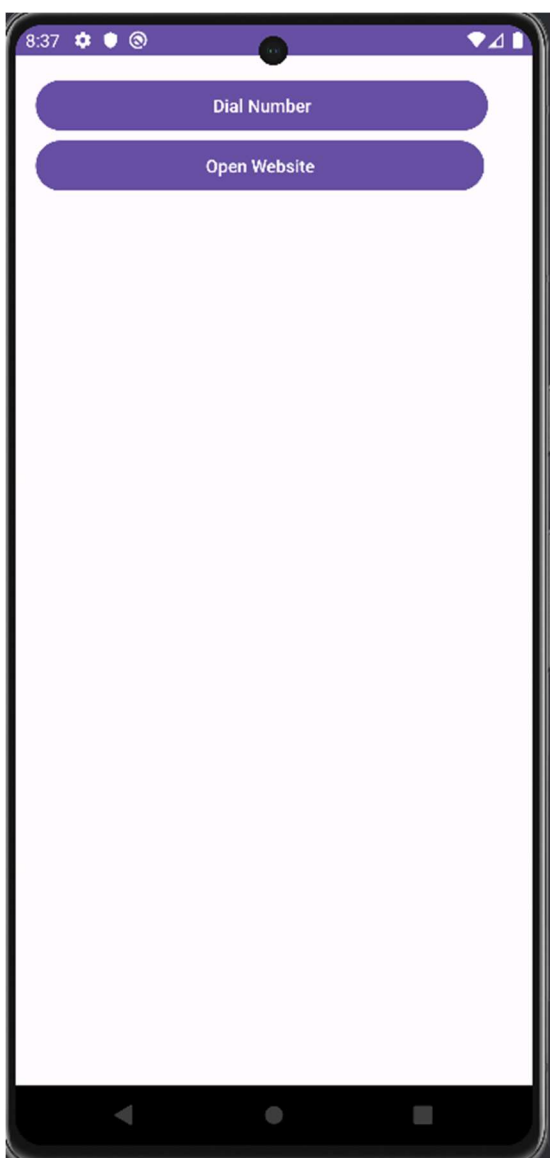
private void openWebPage(String url) {

    Intent intent = new Intent(Intent.ACTION_VIEW, Uri.parse(url));

    startActivity(intent);

}
}

```



8)Write a Program to make Android Application to open Userdetails Form when click on Show Button (Use Intent Concept & UserDetails Form Contains Username,Password, Submit & Cancel Button).



```
package com.example.tybca_13214;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.content.Intent;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

    public Button mybtn;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        mybtn=(Button) findViewById(R.id.bt1);

        mybtn.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {
```



```
Intent i=new Intent(getApplicationContext(),userform.class);

startActivity(i);

}

});

}

}
```

userform.java

```
package com.example.tybca_13214;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class userform extends AppCompatActivity {

    @Override

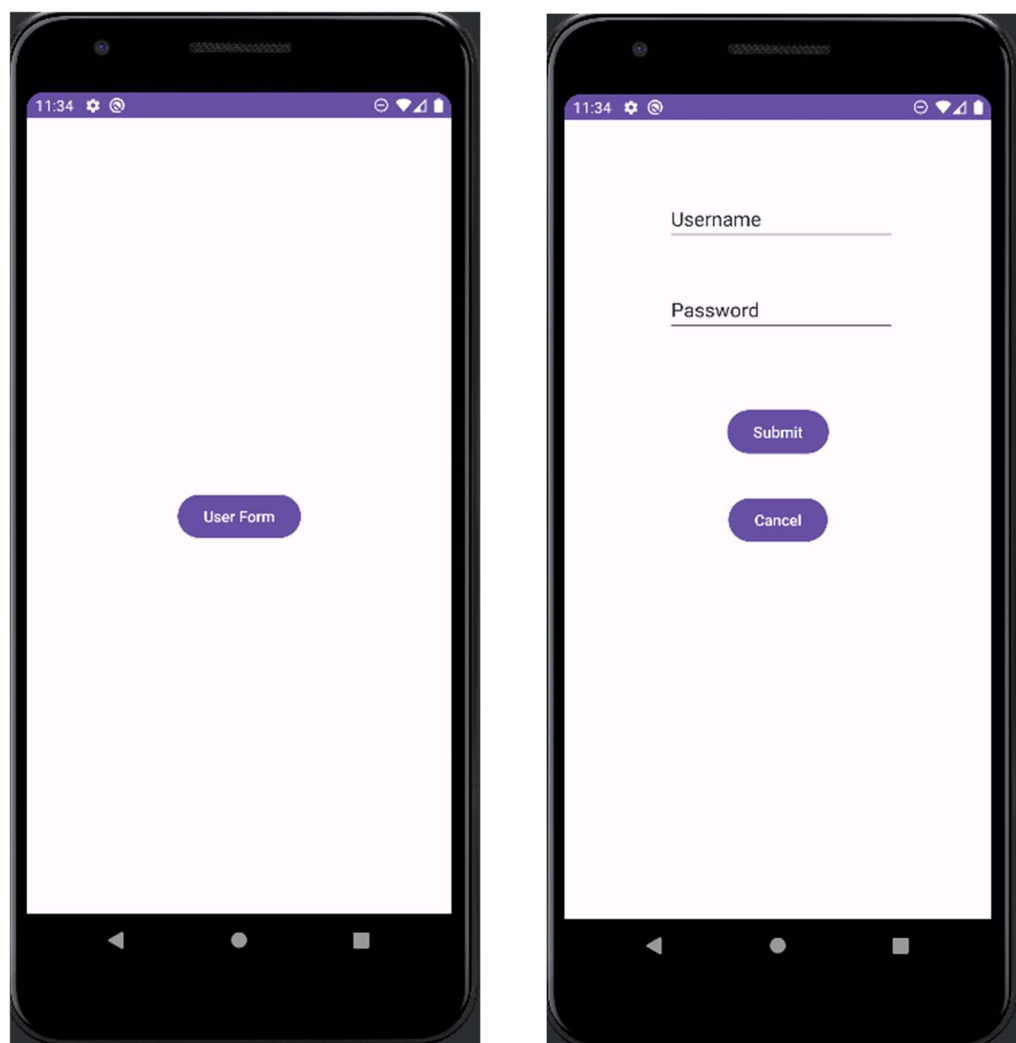
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

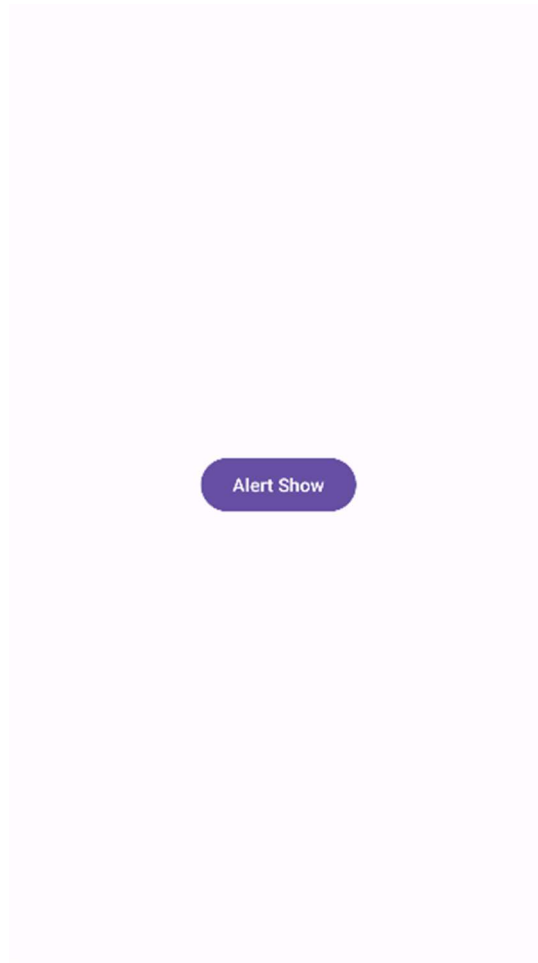
        setContentView(R.layout.activity_userform);

    }

}
```



9)Write a Program to Make Android Application which display alert dialog box having Yes & No Button after click on show Button.



```
package com.example.tybca_13214;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

import android.content.DialogInterface;

import android.os.Bundle;

import android.content.Intent;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

    public Button mybtn;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        mybtn=(Button) findViewById(R.id.bt1);

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

@Override

public void onClick(View view) {

 AlertDialog.Builder builder=new AlertDialog.Builder(MainActivity.this);

 builder.setMessage("Do you want to continue");

 builder.setTitle("Alert!");

 builder.setCancelable(false);

 builder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {

 @Override

 public void onClick(DialogInterface dialogInterface, int i) {

 dialogInterface.cancel();

 }

 });

 builder.setNegativeButton("No", new DialogInterface.OnClickListener() {

 @Override

 public void onClick(DialogInterface dialogInterface, int i) {

 dialogInterface.cancel();

 }

 });

 AlertDialog alert=builder.create();

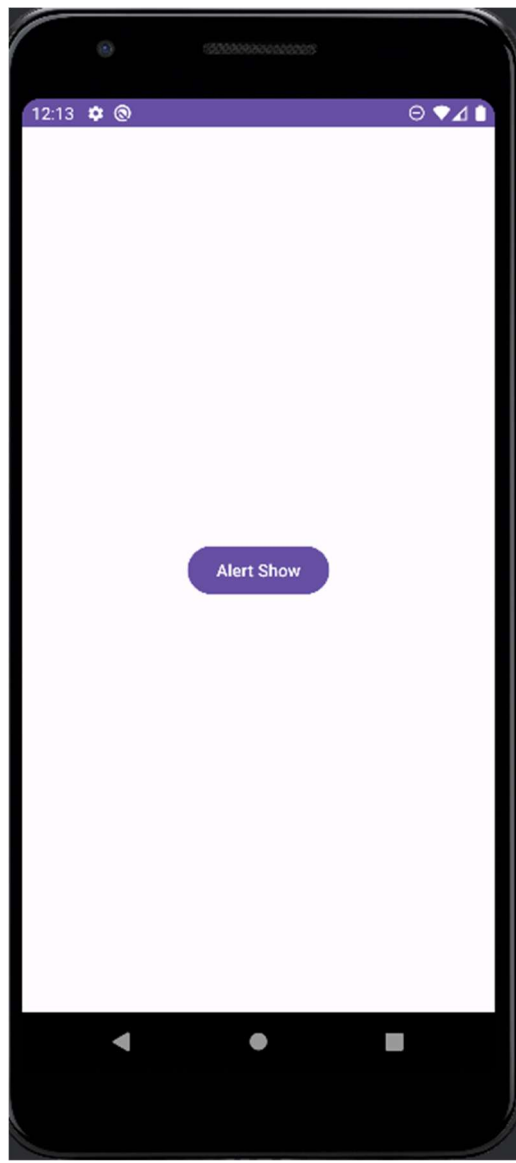
 alert.show();

}

});

}

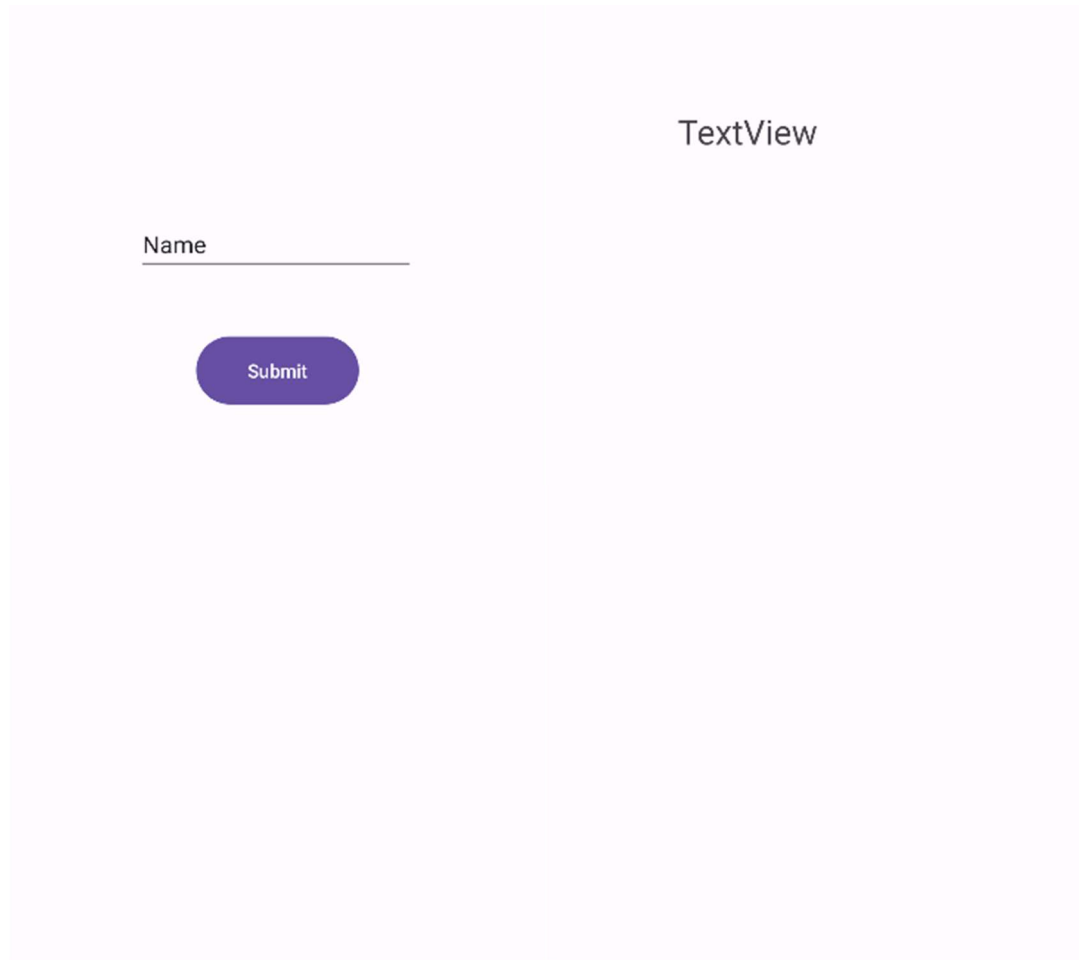
}



10)Write a program to Make Android Application which uses fragment concept to create a two fragments in single Activity.

Assignment No.2

11) Create a simple application which accept any message form user and display that message into second activity with the help of intent.



MainActivity.java

```
package com.example.tybca_13214;

import androidx.appcompat.app.AppCompatActivity;
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 {

    public Button mybt;

    public EditText myed;

    @Override

    protected void onCreate(Bundle savedInstanceState){

        super.onCreate(savedInstanceState);

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

```
mybt=(Button) findViewById(R.id.bt1);

myed=(EditText) findViewById(R.id.ed1);

myed.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

        String str=myed.getText().toString();

        Intent i=new Intent(getApplicationContext(), second.class);

        i.putExtra("Message",str);

        startActivity(i);

    }

});

}
```

second.java

```
package com.example.tybca_13214;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.TextView;

import android.content.Intent;

public class second extends AppCompatActivity {

    public TextView tv;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_second);

        tv=(TextView) findViewById(R.id.tv1);
```

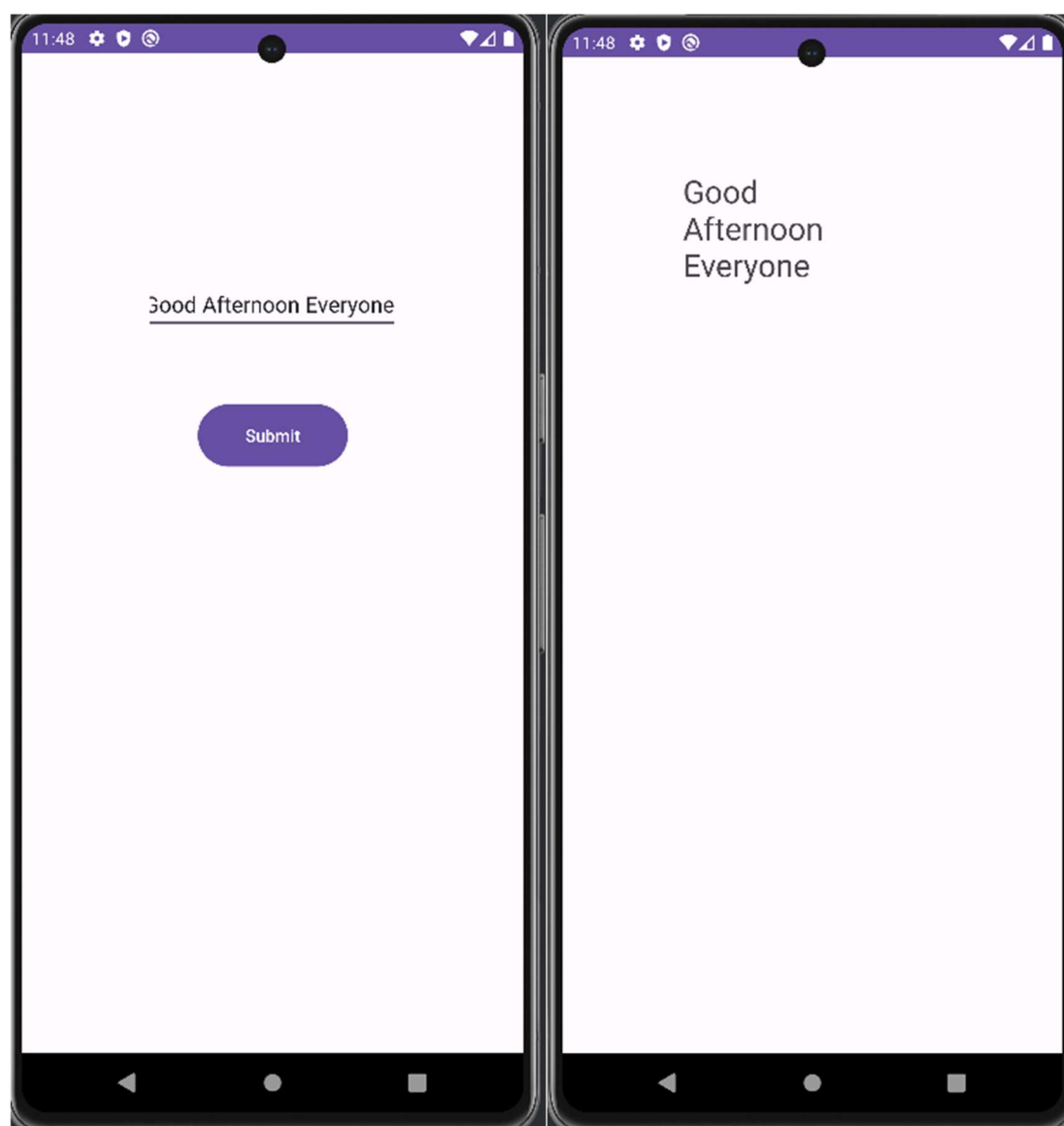
```
Intent j=getIntent();

String nstr=j.getStringExtra("Message");

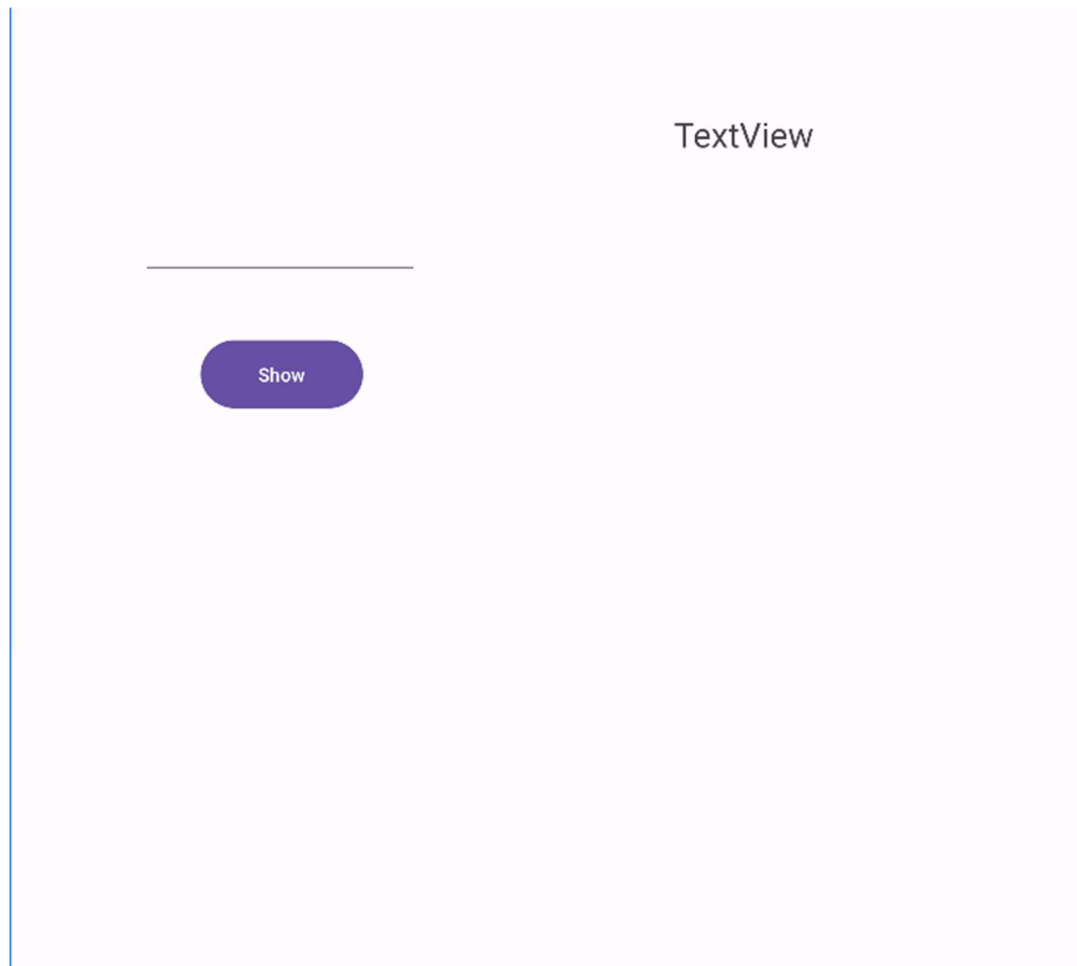
tv.setText(nstr);

}

}
```



12) Create a simple application which accept any +ve number from the user & display its reverse number into another activity with the help of intent.



MainActivity.java

```
package com.example.tybca_13214;

import androidx.appcompat.app.AppCompatActivity;
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 {

    public Button mybt;

    public EditText myed;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        mybt=(Button) findViewById(R.id.bt1);
```

```
myed=(EditText) findViewById(R.id.ed1);

mybt.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

        Integer rem;

        Integer rev=0;

        Integer n=Integer.parseInt(myed.getText().toString());

        while(n>0){

            rem=n%10;

            rev=rev*10+rem;

            n=n/10;

        }

        String s=String.valueOf(rev);

        Intent i=new Intent(getApplicationContext(), second.class);

        i.putExtra("reverse",s);

        startActivity(i);

    }

});

}
```

second.java

```
package com.example.tybca_13214;

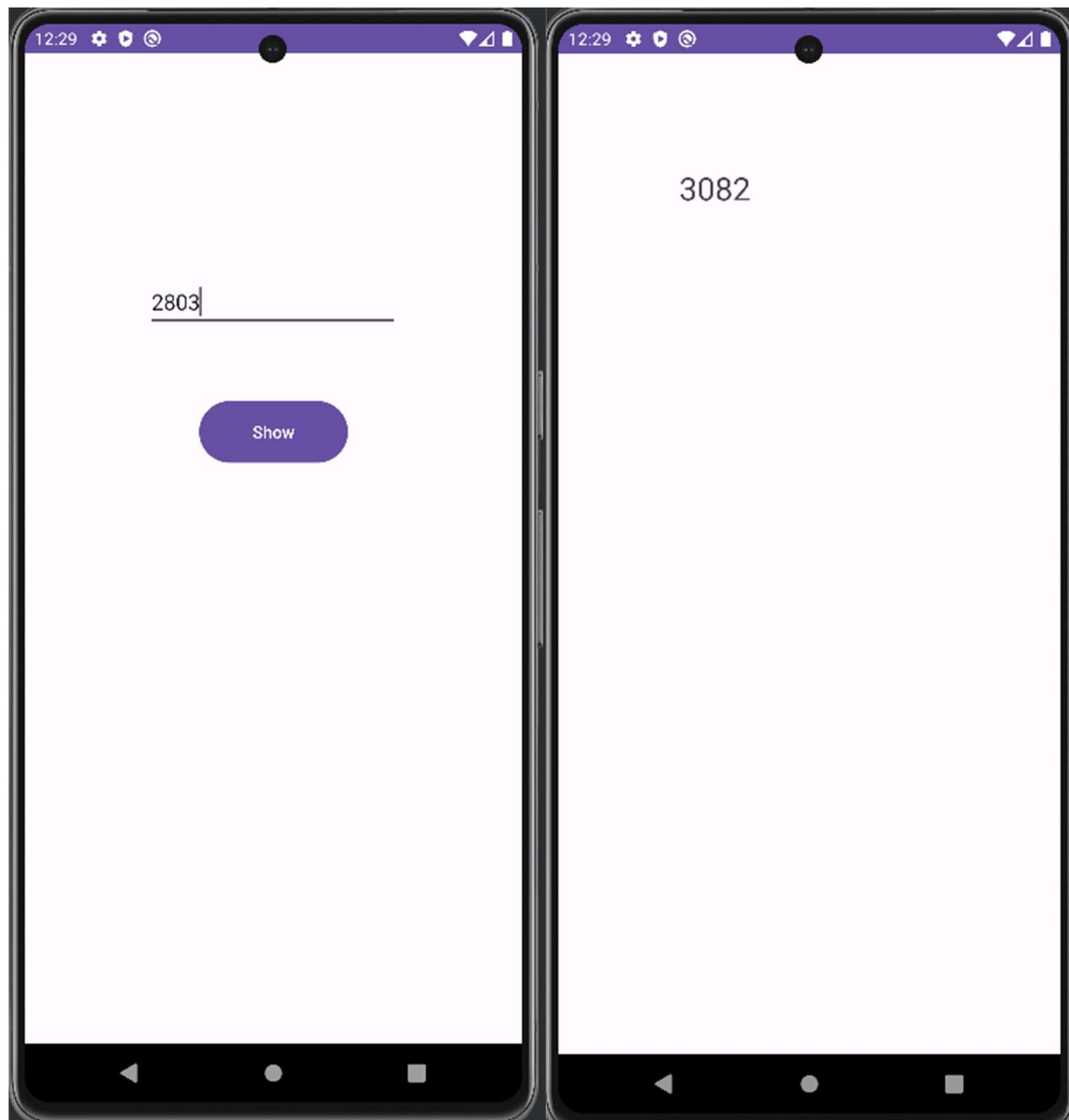
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

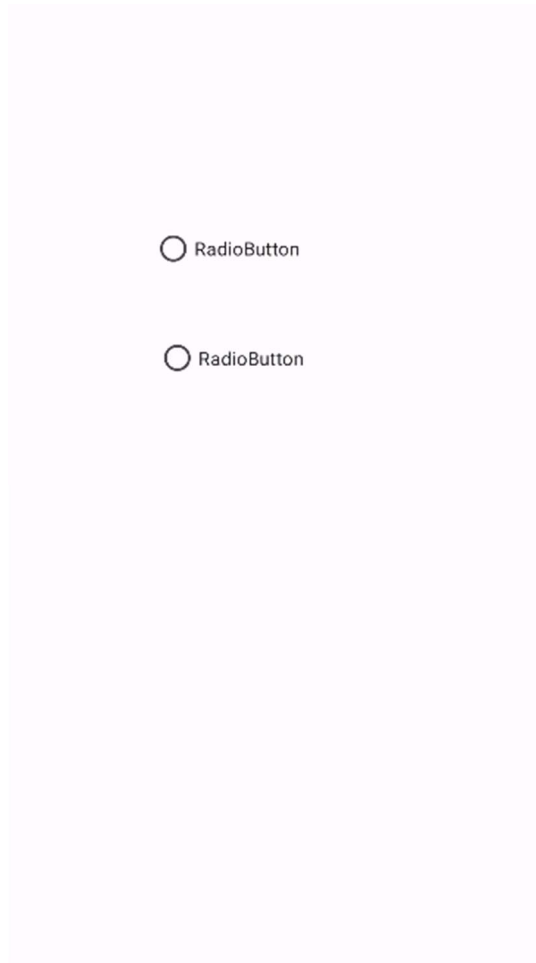
import android.widget.TextView;

import android.content.Intent;
```

```
public class second extends AppCompatActivity {  
  
    public TextView mytv;  
  
    @Override  
  
    protected void onCreate(Bundle savedInstanceState) {  
  
        super.onCreate(savedInstanceState);  
  
        setContentView(R.layout.activity_second);  
  
        mytv=(TextView) findViewById(R.id.tv1);  
  
        Intent j=getIntent();  
  
        String r=j.getStringExtra("reverse");  
  
        mytv.setText(r);  
  
    }  
  
}
```



13) Create a simple application which shows use of Radio Button. When Click on Radio Button it shows message into Toast.



MainActivity.java

```
package com.example.tybca_13214;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View.OnClickListener;
import android.view.View;
import android.widget.RadioButton;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    public RadioButton mrdo;

    public RadioButton frdo;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

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

```

        mrdo = (RadioButton) findViewById(R.id.rdo1);

        frdo = (RadioButton) findViewById(R.id.rdo2);

        mrdo.setOnClickListener(radiolistener);

        frdo.setOnClickListener(radiolistener);

    }

    private OnClickListener radiolistener=new OnClickListener() {

        @Override

        public void onClick(View view){

            RadioButton radioButton=(RadioButton) view;

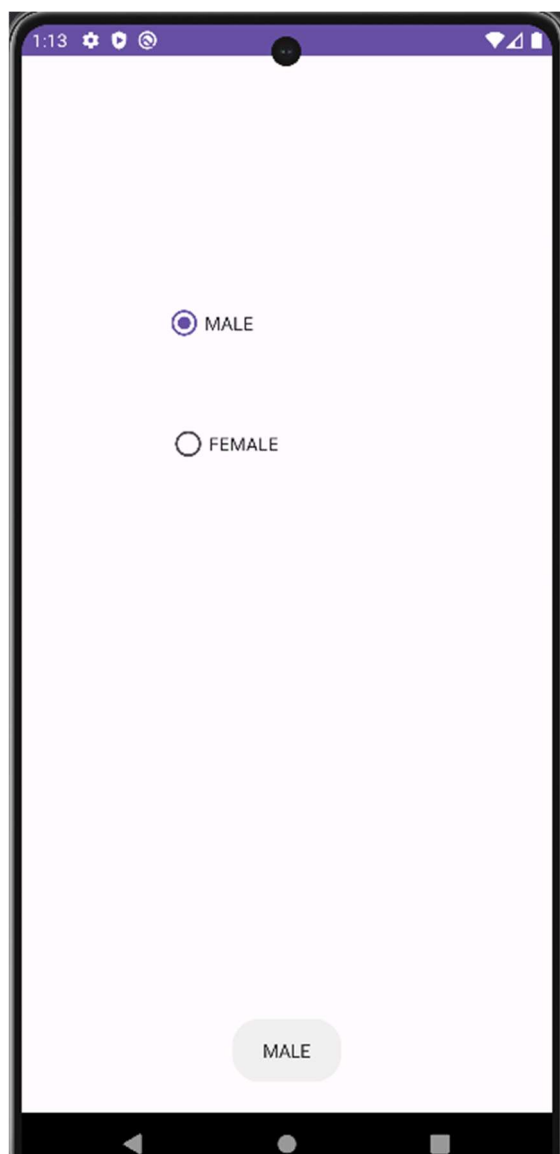
            Toast.makeText(MainActivity.this,radioButton.getText(), Toast.LENGTH_LONG).show();;

        }

    };

}

```



14) Create a simple application which displays a simple alert dialog box having the message “do you want to continue?” with Yes & No Buttons.

```
package com.example.tybca_13214;

import android.content.DialogInterface;

import android.os.Bundle;

import android.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);


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

        builder.setTitle("Confirmation");

        builder.setMessage("Do you want to continue?");

        builder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {

            @Override

            public void onClick(DialogInterface dialog, int which) {

            }

        });

        builder.setNegativeButton("No", new DialogInterface.OnClickListener() {

            @Override

            public void onClick(DialogInterface dialog, int which) {

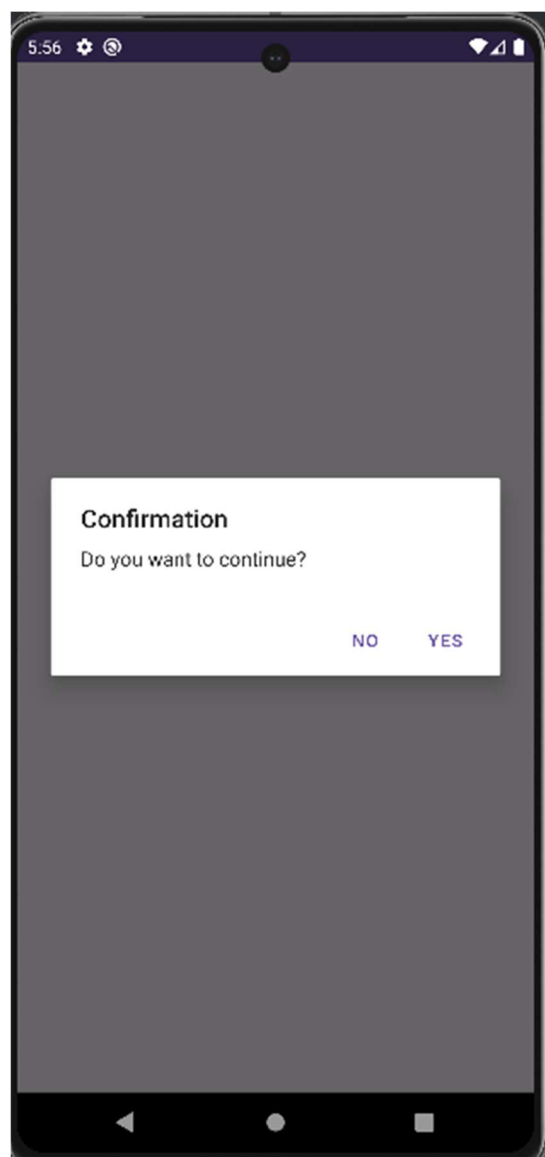
                // Do something when the user clicks the "No" button
            }

        });

    }

}
```

```
}  
  
});  
  
AlertDialog dialog = builder.create();  
  
dialog.show();  
  
}  
  
}
```



15) Create a simple application which displays a scroll layout of 15 Buttons. (use LinearLayout to show all Buttons)

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

<ScrollView 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">

    <LinearLayout

        android:layout_width="fill_parent"

        android:layout_height="fill_parent"

        android:orientation="vertical">

        <Button

            android:layout_width="fill_parent"

            android:layout_height="wrap_content"

            android:text="Button1"/>

        <Button

            android:layout_width="fill_parent"

            android:layout_height="wrap_content"

            android:text="Button2"/>

        <Button

            android:layout_width="fill_parent"

            android:layout_height="wrap_content"

            android:text="Button3"/>

        <Button

            android:layout_width="fill_parent"
```



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

```
android:text="Button4"/>
```

```
<Button
```

```
android:layout_width="fill_parent"
```

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

```
android:text="Button5"/>
```

```
<Button
```

```
android:layout_width="fill_parent"
```

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

```
android:text="Button6"/>
```

```
<Button
```

```
android:layout_width="fill_parent"
```

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

```
android:text="Button7"/>
```

```
<Button
```

```
android:layout_width="fill_parent"
```

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

```
android:text="Button8"/>
```

```
<Button
```

```
android:layout_width="fill_parent"
```

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

```
android:text="Button9"/>
```

```
<Button
```

```
android:layout_width="fill_parent"
```

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

```
android:text="Button10"/>
```

```
<Button
```

```
android:layout_width="fill_parent"

android:layout_height="wrap_content"

android:text="Button11"/>
```

```
<Button

    android:layout_width="fill_parent"

    android:layout_height="wrap_content"

    android:text="Button12"/>
```

```
<Button

    android:layout_width="fill_parent"

    android:layout_height="wrap_content"

    android:text="Button13"/>
```

```
<Button

    android:layout_width="fill_parent"

    android:layout_height="wrap_content"

    android:text="Button14"/>
```

```
<Button

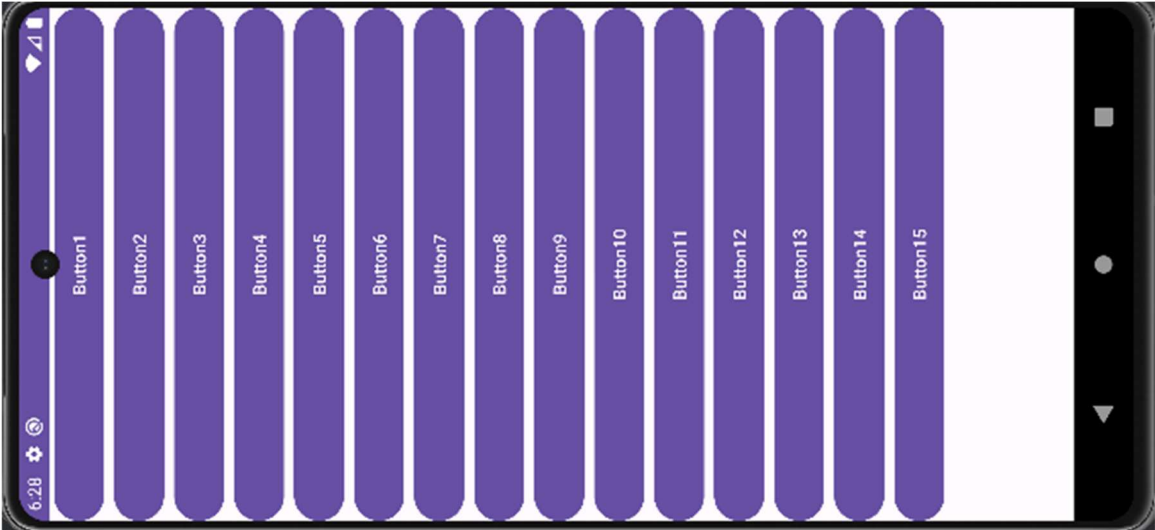
    android:layout_width="fill_parent"

    android:layout_height="wrap_content"

    android:text="Button15"/>
```

```
</LinearLayout>
```

```
</ScrollView>
```



16) Create a simple application which creates simple userform by using TableLayout. (User form having field Enter the user Name &, Enter User Email with login Button)

```
<?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"

    android:padding="16dp"

    tools:context=".MainActivity">

    <TableLayout

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:stretchColumns="1">

        <TableRow>

            <TextView

                android:layout_width="wrap_content"

                android:layout_height="wrap_content"

                android:text="Enter the User Name:"

                android:paddingEnd="8dp"/>

            <EditText

                android:id="@+id/etUserName"

                android:layout_width="0dp"

                android:layout_height="wrap_content"

                android:layout_weight="1"
```

```
        android:hint="Username"/>

</TableRow>

<TableRow>

    <TextView

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Enter User Email:"

        android:paddingEnd="8dp"/>

    <EditText

        android:id="@+id/etUserEmail"

        android:layout_width="0dp"

        android:layout_height="wrap_content"

        android:layout_weight="1"

        android:hint="Email"/>

</TableRow>

<TableRow>

    <Button

        android:id="@+id/btnLogin"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

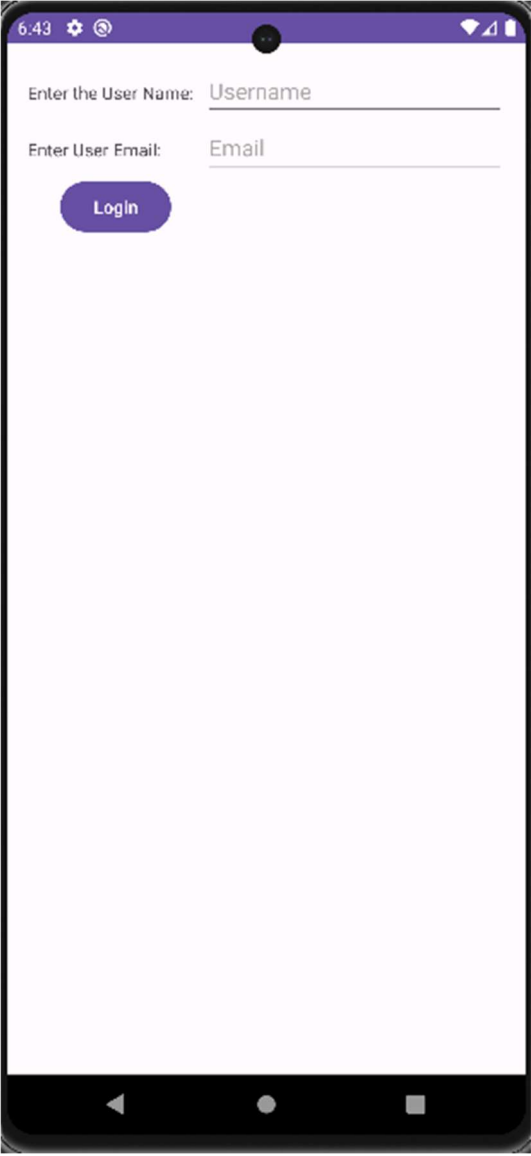
        android:layout_gravity="center"

        android:text="Login"/>

</TableRow>

</TableLayout>

</LinearLayout>
```



17) Create a Simple application which creates and display ListView of Subject names.

```
package com.example.tybca_13214;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.AdapterView.OnItemClickListener;

import android.widget.ArrayAdapter;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    public ListView l1;

    String subject[]={"Python","Java","ado.net","Android","C.programing"};

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        l1=(ListView)findViewById(R.id.list1);

        ArrayAdapter<String>arr=new ArrayAdapter<String>(this,

androidx.appcompat.R.layout.support_simple_spinner_dropdown_item,subject);

        l1.setAdapter(arr);

        l1.setOnItemClickListener(new AdapterView.OnItemClickListener() {

            @Override

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

                Toast.makeText(parent.getContext(),

                    "Item Selected"+parent.getItemAtPosition(pos).toString(),

                    Toast.LENGTH_LONG).show();

            }

        });

    }

}
```

}

});

}

}



```
package com.example.tybca_13214;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.AdapterView.OnItemClickListener;

import android.widget.ArrayAdapter;

import android.widget.AdapterView.OnItemSelectedListener;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    public Spinner sp;

    String country[] = {"India", "China", "Nepal", "Bangladesh", "SriLanka"};

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        sp=(Spinner) findViewById(R.id.sp1);

        ArrayAdapter<String>arr=new ArrayAdapter<String>(this,

androidx.appcompat.R.layout.support_simple_spinner_dropdown_item,

        country);

        sp.setAdapter(arr);

        sp.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {

            @Override

            public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l) {

                Toast.makeText(getApplicationContext(),

                    "Selected Item="+adapterView.getItemAtPosition(i).toString(),

                    Toast.LENGTH_LONG).show();

            }

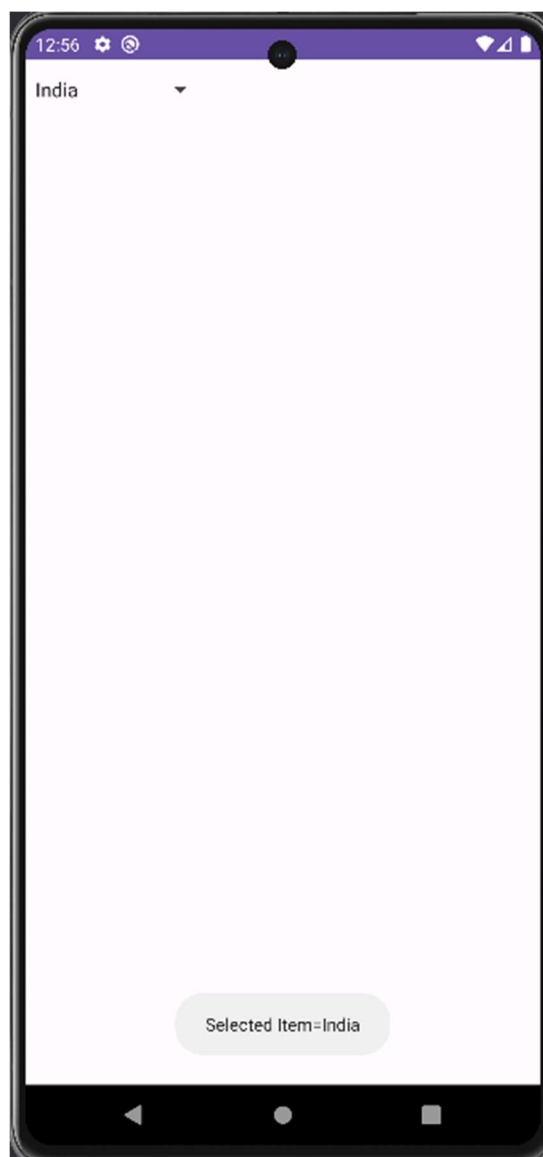
        });

    }

}
```



```
}  
  
@Override  
  
public void onNothingSelected(AdapterView<?> adapterView){  
  
    }  
  
});  
  
}  
  
}
```



19) Create a Simple application to display context menu of color name (After Long Press)

```
package com.example.tybca_13214;

import android.os.Bundle;

import android.view.ContextMenu;

import android.view.View;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    public TextView mytv;

    @Override

    public void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        mytv=(TextView)findViewById(R.id.tv1);

        registerForContextMenu(mytv);

    }

    @Override

    public void onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo

menuInfo){

        super.onCreateContextMenu(menu,v,menuInfo);

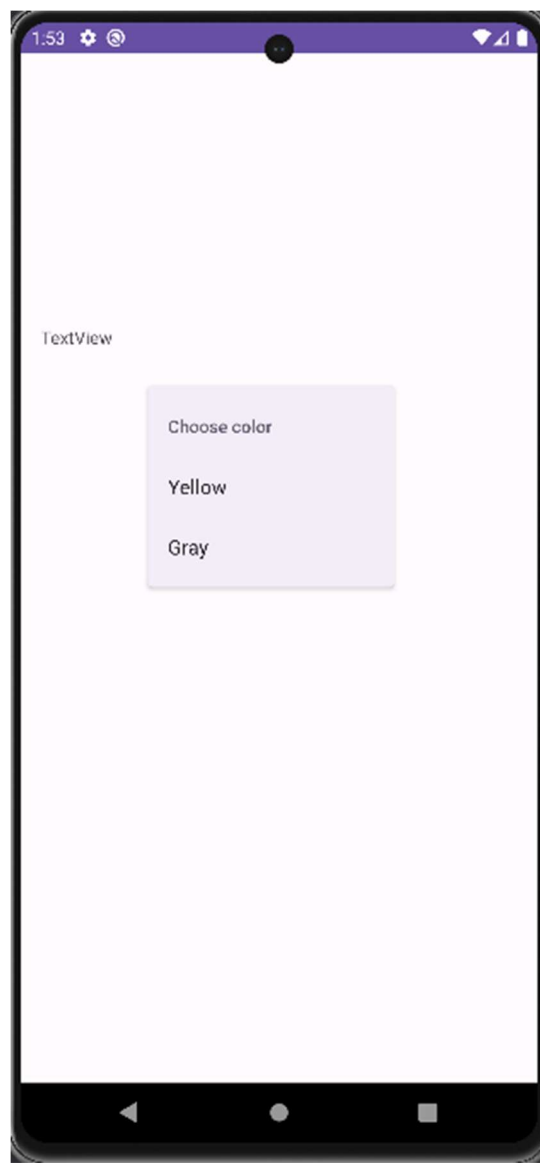
        menu.setHeaderTitle("Choose color");

        menu.add(0,v.getId(),0,"Yellow");

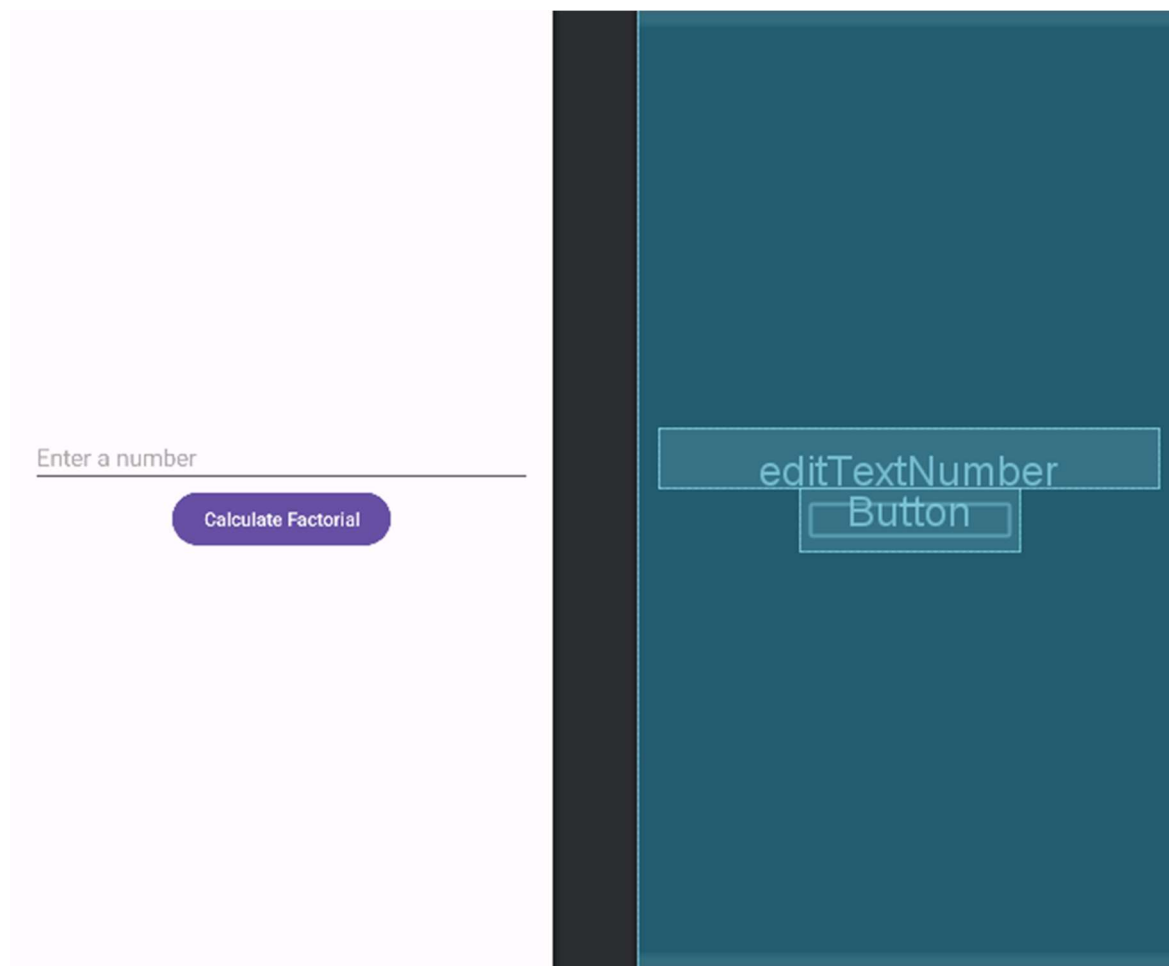
        menu.add(0,v.getId(),0,"Gray");

    }

}
```



20) Create a Simple application to accept any number from user and display its factorial value into Toast



```
package com.example.tybca_13214;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    public EditText editTextNumber;

    public Button calculateButton;

    @Override

    public void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        editTextNumber = findViewById(R.id.editTextNumber);

        calculateButton = findViewById(R.id.calculateButton);

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

@Override

```
public void onClick(View view) {  
    calculateFactorial();  
}  
});  
}  
  
public void calculateFactorial() {  
    try {  
        int number = Integer.parseInt(editTextNumber.getText().toString());  
  
        long factorial = 1;  
  
        for (int i = 1; i <= number; i++) {  
            factorial *= i;  
        }  
  
        String resultMessage = "Factorial of " + number + " is " + factorial;  
  
        Toast.makeText(this, resultMessage, Toast.LENGTH_SHORT).show();  
    } catch (NumberFormatException e) {  
        Toast.makeText(this, "Please enter a valid number", Toast.LENGTH_SHORT).show();  
    }  
}}
```

