

1.

### Mainactivity.java

```
package com.example.sjcet.calc;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    EditText usernamedt;
    EditText passwdedt;

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

    public void Login(View view) {
        usernamedt=(EditText) findViewById(R.id.et1);
        passwdedt=(EditText) findViewById(R.id.et2);

        String userName = usernamedt.getText().toString();
        String password = passwdedt.getText().toString();

        if(userName.equals("admin") && password.equals("admin")){
            Toast.makeText(this, "login succesful", Toast.LENGTH_SHORT).show();
        }
        else{
            Toast.makeText(this, "login failed", Toast.LENGTH_SHORT).show();
        }
    }
}
```

### Acitivity\_main.xml

```
<RelativeLayout android:layout_width="match_parent"
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_height="wrap_content">

    <EditText
```

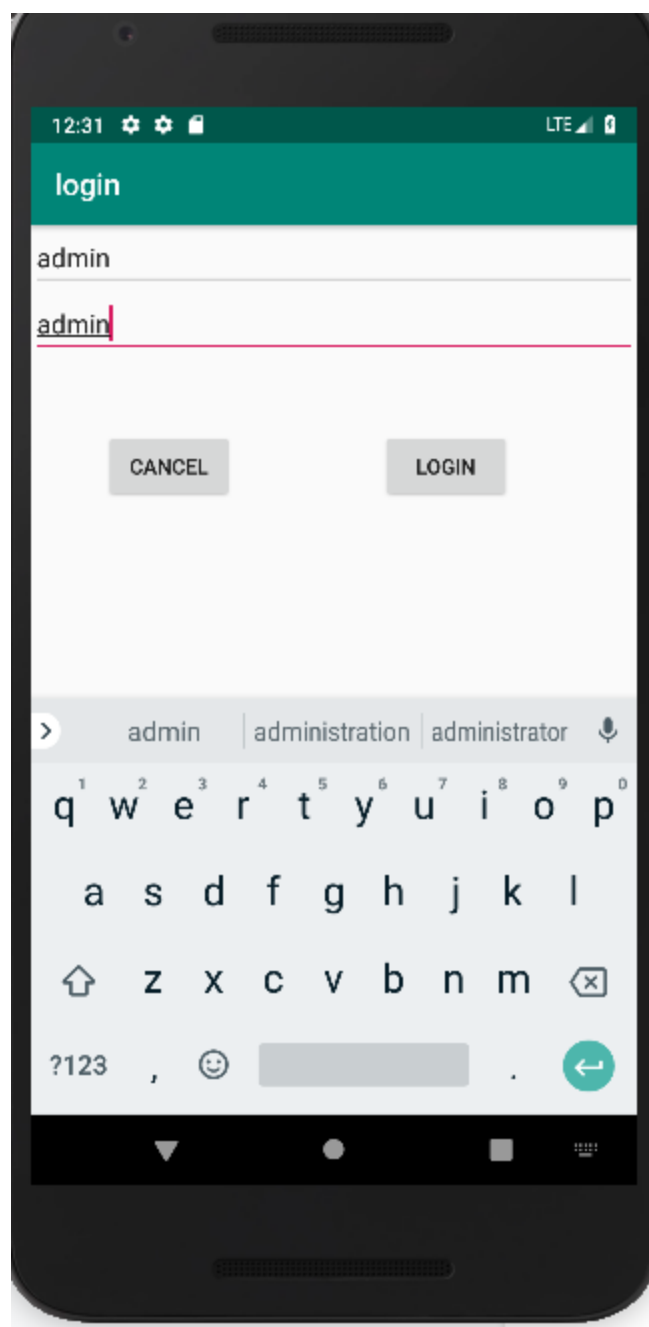
```
        android:id="@+id/et1"
        android:hint="username"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />
<EditText
    android:id="@+id/et2"
    android:hint="password"
    android:layout_below="@id/et1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content" />

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_below="@id/et2">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="cancel"
        android:layout_margin="50dp"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="login"
        android:onClick="Login"
        android:layout_margin="50dp"/>

</LinearLayout>

</RelativeLayout>
```



2.

### Mainactivity.java

```
package com.example.sjcet.lifecycle;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        // Log.d("lifecycle", "onCreate invoked");
        Toast.makeText(this, "onCreate invoked", Toast.LENGTH_SHORT).show();
    }

    protected void onStart() {
        super.onStart();
        // Log.d("lifecycle", "onStart invoked");
        Toast.makeText(this, "onStart invoked", Toast.LENGTH_SHORT).show();
    }

    protected void onResume() {
        super.onResume();
        //Log.d("lifecycle", "onResume invoked");
        Toast.makeText(this, "onResume invoked", Toast.LENGTH_SHORT).show();
    }

    protected void onPause() {
        super.onPause();
        // Log.d("lifecycle", "onPause invoked");
        Toast.makeText(this, "onPause invoked", Toast.LENGTH_SHORT).show();
    }

    protected void onStop() {
        super.onStop();
        //Log.d("lifecycle", "onStop invoked");
        Toast.makeText(this, "oStop invoked", Toast.LENGTH_SHORT).show();
    }

    protected void onRestart() {
        super.onRestart();
        //Log.d("lifecycle", "onRestart invoked");
        Toast.makeText(this, "onRestart invoked", Toast.LENGTH_SHORT).show();
    }
}
```

```

    }

    protected void onDestroy() {
        super.onDestroy();
        //Log.d("lifecyle", "onDestroy invoked");
        Toast.makeText(this, "onDestroy invoked", Toast.LENGTH_SHORT).show();
    }

}

```

Activity\_main.xml

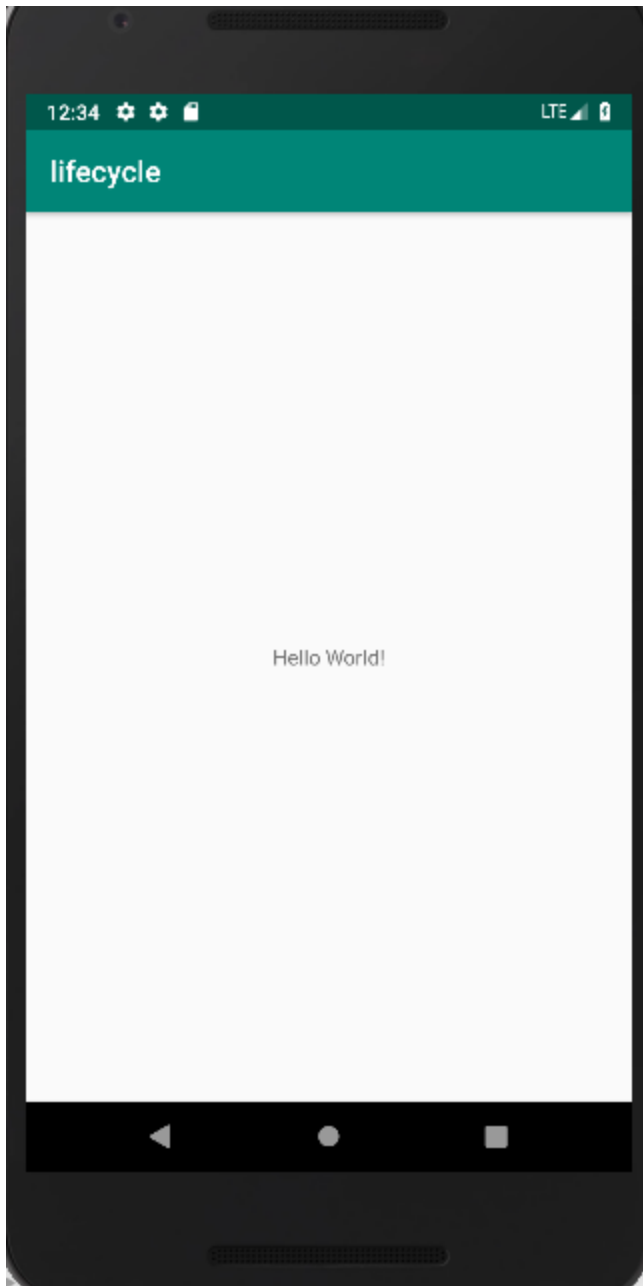
```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout 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">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</android.support.constraint.ConstraintLayout>

```



3.

```
package com.example.sjcet.calculator2;
```

```
import android.support.v7.app.AppCompatActivity;
```

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

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

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

```
import android.widget.TextView;
```

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

```
    EditText t1;
```

```
    EditText t2;
```

```
    TextView t3;
```

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

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

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

```
        t1 = (EditText) findViewById(R.id.n1);
```

```
        t2 = (EditText) findViewById(R.id.num2);
```

```
        t3 = (TextView) findViewById(R.id.t1);
```

```
    }
```

```
    public void sum(View view) {
```

```
        int x = Integer.parseInt(t1.getText().toString());
```

```
        int y = Integer.parseInt(t2.getText().toString());
```

```
        int s = x + y;
```

```
        t3.setText(Integer.toString(s));
```

```
    }
```

```
    public void diff(View view) {
```

```
        int x = Integer.parseInt(t1.getText().toString());
```

```
        int y = Integer.parseInt(t2.getText().toString());
```

```
        int s = x - y;
```

```
        t3.setText(Integer.toString(s));
```

```
    }
```

```
    public void mul(View view) {
```

```
        int x = Integer.parseInt(t1.getText().toString());
```

```
        int y = Integer.parseInt(t2.getText().toString());
```

```
        int s = x * y;
```

```
        t3.setText(Integer.toString(s));
```

```
    }
```

```
    public void div(View view) {
```

```
        int x = Integer.parseInt(t1.getText().toString());
```

```
        int y = Integer.parseInt(t2.getText().toString());
```

```
        int s = x / y;
```

```
        t3.setText(Integer.toString(s));
```

```
    }
```

```
}
```

.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout 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">
```

```
<EditText
    android:id="@+id/n1"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="32dp"
    android:ems="10"
    android:hint="number"
    android:inputType="textPersonName"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<EditText
    android:id="@+id/num2"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="32dp"
    android:ems="10"
    android:hint="number"
    android:inputType="textPersonName"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/n1" />
```

```
<Button
    android:id="@+id/b1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="16dp"
    android:text="add"
    android:onClick="sum"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/num2" />
```

```
<Button
    android:id="@+id/b2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="16dp"
```



```
    android:text="diff"
    android:onClick="diff"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/b1" />
```

<Button

```
    android:id="@+id/b3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="16dp"
    android:text="mul"
    android:onClick="mul"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/b2" />
```

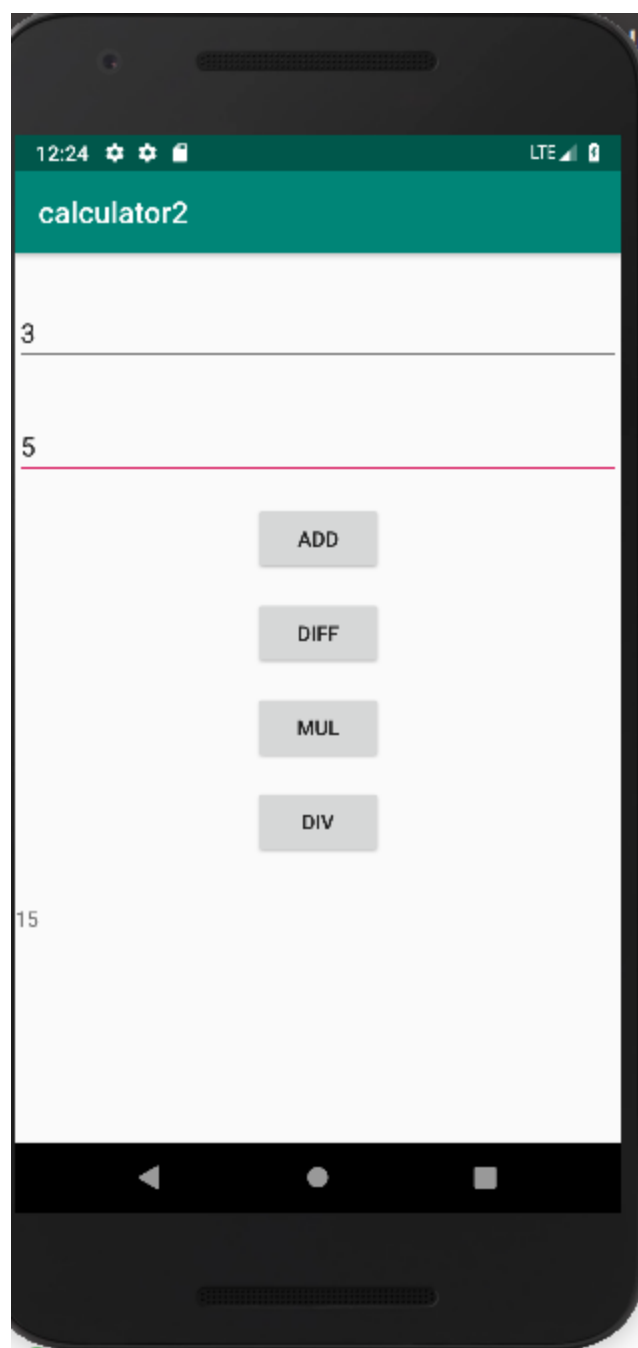
<Button

```
    android:id="@+id/b4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="16dp"
    android:text="div"
    android:onClick="div"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/b3" />
```

<TextView

```
    android:id="@+id/t1"
    android:layout_width="0dp"
    android:layout_height="18dp"
    android:layout_marginTop="32dp"
    android:text="result"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/b4" />
```

</android.support.constraint.ConstraintLayout>



4.

Mainactivity1.xml

```
<RelativeLayout android:layout_width="match_parent"
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_height="match_parent">

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:hint="name"
        android:id="@+id/et1"/>

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:hint="email"
        android:id="@+id/et2"
        android:layout_below="@+id/et1"/>

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:hint="password"
        android:id="@+id/et3"
        android:layout_below="@+id/et2"
        android:inputType="textPassword"/>

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:layout_margin="10dp"
        android:layout_below="@+id/et3"
        android:id="@+id/ll1">

        <CheckBox
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="hindi"
            android:id="@+id/ck1"/>

        <CheckBox
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="english"
            android:id="@+id/ck2"/>

        <CheckBox
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
```

```
    android:text="other"
    android:id="@+id/ck3"/>
```

```
<RadioGroup
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:id="@+id/rg1">
```

```
    <RadioButton
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/r1"
        android:text="male"/>
```

```
    <RadioButton
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/r2"
        android:text="female"/>
```

```
</RadioGroup>
```

```
</LinearLayout>
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"

    android:id="@+id/b1"
    android:text="Register"
    android:onClick="register"
    android:layout_below="@+id/l1"/>
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="cancel"
    android:layout_below="@+id/l1"
    android:layout_marginLeft="100dp"/>
```

```
</RelativeLayout>
```

mainactivity.java

```
package com.example.sjcet.registrationval;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.RadioGroup;
import android.widget.Toast;
```

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

```
    EditText nameedt;
    EditText emailedt;
    EditText passedt;
    RadioGroup rg1;
    CheckBox ck1,ck2,ck3;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
```

```
    public void register(View view) {
```

```
        nameedt=(EditText)findViewById(R.id.et1);
        emailedt=(EditText)findViewById(R.id.et2);
        passedt=(EditText)findViewById(R.id.et3);
        rg1=(RadioGroup)findViewById(R.id.rg1) ;
        ck1=(CheckBox)findViewById(R.id.ck1);
        ck2=(CheckBox)findViewById(R.id.ck2);
        ck3=(CheckBox)findViewById(R.id.ck3);
```

```
        String userName = nameedt.getText().toString();
        String password = emailedt.getText().toString();
```

```
        if(checkAll()){
            Intent i= new Intent(getApplicationContext(),Main2Activity.class);
            //Intent.putString("value1",nameedt;
            i.putExtra("name",userName);

            startActivity(i);
        }
        else{
            Toast.makeText(this, "all fields are required!!", Toast.LENGTH_SHORT).show();
        }
    }
```

```
    private boolean checkAll(){
        if (nameedt.length() == 0){
            nameedt.setError("This field is required");
        }
    }
```

```

        return false;
    }
    if(emailedt.length() == 0 ){
        emailedt.setError("This field required");
        return false;
    }
    if(passedt.length() == 0 ){
        passedt.setError("This field required");
        return false;
    }
    if (rg1.getCheckedRadioButtonId() == -1)
    {
        //rg1.setError("this field required");
        return false;
    }
    if(!(ck1.isChecked()||ck2.isChecked()||ck3.isChecked())){
        return false;
    }

    return true;
}
}

```

Mainactivity2.xml

```

<LinearLayout xmlns:android = "http://schemas.android.com/apk/res/android"
    xmlns:tools = "http://schemas.android.com/tools"
    android:layout_width = "match_parent"
    android:layout_height = "match_parent"
    android:layout_margin = "16dp"
    android:orientation = "vertical">
    <TextView
        android:id = "@+id/text_view"
        android:layout_width = "match_parent"
        android:layout_height = "wrap_content"
        android:layout_gravity = "center" />
</LinearLayout>

```

## Mainactivity2.java

```
package com.example.sjcet.registrationval;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;

public class Main2Activity extends AppCompatActivity {

    TextView textView;
    Intent intent;

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);

        intent = getIntent();
        String result = intent.getStringExtra("name");

        textView = findViewById(R.id.text_view);
        textView.setText(result);
    }
}
```

12:36

LTE

## Registrationval

anu

email

This field required

☐ hindi

☒ english

☐ other

☐ male

☒ female

REGISTER

CANCEL