1

<?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"

android:background="#00FFFF"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView4"

android:layout\_width="371dp"

android:layout\_height="wrap\_content"

android:layout\_alignParentStart="true"

android:layout\_alignParentLeft="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="28dp"

android:layout\_marginLeft="40dp"

android:layout\_marginEnd="12dp"

android:layout\_marginRight="12dp"

android:layout\_marginBottom="219dp"

android:text="Address:JAIN Campus,Hebballi Road,Hubballi -580031"

android:textAlignment="center"

android:textSize="24sp" />

<TextView

android:id="@+id/textView5"

android:layout\_width="250dp"

android:layout\_height="wrap\_content"

android:layout\_alignParentStart="true"

android:layout\_alignParentLeft="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="87dp"

android:layout\_marginLeft="87dp"

android:layout\_marginEnd="73dp"

android:layout\_marginRight="73dp"

android:layout\_marginBottom="157dp"

android:text="Ph No: 9108380566"

android:textAlignment="center"

android:textSize="24sp" />

<TextView

android:id="@+id/textView6"

android:layout\_width="367dp"

android:layout\_height="wrap\_content"

android:layout\_alignParentStart="true"

android:layout\_alignParentLeft="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="25dp"

android:layout\_marginLeft="25dp"

android:layout\_marginEnd="19dp"

android:layout\_marginRight="19dp"

android:layout\_marginBottom="64dp"

android:text="Email Id:jcetcse@jcet.ac.edu"

android:textAlignment="center"

android:textSize="24sp" />

<TextView

android:id="@+id/textView3"

android:layout\_width="367dp"

android:layout\_height="66dp"

android:layout\_alignParentStart="true"

android:layout\_alignParentLeft="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="12dp"

android:layout\_marginLeft="12dp"

android:layout\_marginEnd="32dp"

android:layout\_marginRight="32dp"

android:layout\_marginBottom="421dp"

android:text="Computer Science and Eng"

android:textAlignment="center"

android:textSize="24sp" />

<ImageView

android:id="@+id/imageView3"

android:layout\_width="155dp"

android:layout\_height="98dp"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="-11dp"

android:layout\_marginRight="-11dp"

android:layout\_marginBottom="620dp"

app:srcCompat="@drawable/logo" />

<ImageView

android:id="@+id/view"

android:layout\_width="wrap\_content"

android:layout\_height="4dp"

android:layout\_alignParentBottom="true"

android:layout\_marginBottom="487dp"

android:background="#444444" />

<TextView

android:id="@+id/textView2"

android:layout\_width="176dp"

android:layout\_height="wrap\_content"

android:layout\_alignParentStart="true"

android:layout\_alignParentLeft="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="79dp"

android:layout\_marginLeft="79dp"

android:layout\_marginEnd="156dp"

android:layout\_marginRight="156dp"

android:layout\_marginBottom="525dp"

android:text="CSE"

android:textAlignment="center"

android:textSize="24sp"

android:textStyle="bold" />

<TextView

android:id="@+id/textView7"

android:layout\_width="258dp"

android:layout\_height="82dp"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="-4dp"

android:layout\_marginRight="-4dp"

android:layout\_marginBottom="612dp"

android:layout\_toStartOf="@+id/imageView3"

android:layout\_toLeftOf="@+id/imageView3"

android:text="JCET HUBLI"

android:textColor="#E91E63"

android:textSize="36sp"

android:textStyle="bold" />

</RelativeLayout>

JAVA

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

    }

}

2

<?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">

<TextView

android:layout\_width="209dp"

android:layout\_height="60dp"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="108dp"

android:layout\_marginRight="108dp"

android:layout\_marginBottom="530dp"

android:text="Simple Calci"

android:textSize="36sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<EditText

android:id="@+id/editText2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="115dp"

android:layout\_marginRight="115dp"

android:layout\_marginBottom="364dp"

android:ems="10"

android:hint="Enter the Number 2"

android:inputType="textPersonName"

android:text=""

android:textColorHighlight="#FFFFFF" />

<EditText

android:id="@+id/editText1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="110dp"

android:layout\_marginRight="110dp"

android:layout\_marginBottom="439dp"

android:ems="10"

android:hint="Enter the Number 1"

android:inputType="textPersonName"

android:text=""

android:textColorHighlight="#FFFFFF" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="260dp"

android:layout\_marginRight="260dp"

android:layout\_marginBottom="175dp"

android:text="ADD"

android:textStyle="bold"

android:onClick="add"

app:backgroundTint="#E8F381" />

<Button

android:id="@+id/button3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="266dp"

android:layout\_marginRight="266dp"

android:layout\_marginBottom="61dp"

android:text="MUL"

android:onClick="mul"

app:backgroundTint="#A1FAA4" />

<Button

android:id="@+id/button4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="108dp"

android:layout\_marginRight="108dp"

android:layout\_marginBottom="63dp"

android:text="DIV"

android:onClick="div"

app:backgroundTint="#E6C28C" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="105dp"

android:layout\_marginRight="105dp"

android:layout\_marginBottom="182dp"

android:text="SUB"

android:onClick="sub"

app:backgroundTint="#ECA9A9" />

<TextView

android:id="@+id/tv1"

android:layout\_width="86dp"

android:layout\_height="61dp"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="202dp"

android:layout\_marginRight="202dp"

android:layout\_marginBottom="274dp"

android:text="0"

android:textSize="36sp" />

</RelativeLayout>

JAVA

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 {

    EditText e1,e2;

    TextView tv;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        e1 =(EditText)findViewById(R.id.editText1);

        e2 = (EditText)findViewById(R.id.editText2);

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

    }

    public void add(View v){

        int a1=Integer.parseInt(e1.getText().toString());

        int a2= Integer.parseInt(e2.getText().toString());

        int result=a1+a2;

        tv.setText(""+result);

    }

    public void sub(View v){

        int a1=Integer.parseInt(e1.getText().toString());

        int a2= Integer.parseInt(e2.getText().toString());

        int result=a1-a2;

        tv.setText(""+result);

    }

    public void mul(View v){

        int a1=Integer.parseInt(e1.getText().toString());

        int a2= Integer.parseInt(e2.getText().toString());

        int result=a1\*a2;

        tv.setText(""+result);

    }

    public void div(View v){

        float a1=Integer.parseInt(e1.getText().toString());

        float a2= Integer.parseInt(e2.getText().toString());

        float result=a1/a2;

        tv.setText(""+result);

    }

}

3

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.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:layout\_marginStart="41dp"  
 android:layout\_marginTop="25dp"  
 android:layout\_marginEnd="80dp"  
 android:layout\_marginBottom="172dp"  
 android:text="SIGN UP ACTIVITY"  
 android:textColor="#C65D5D"  
 android:textSize="28sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="22dp"  
 android:layout\_marginTop="98dp"  
 android:layout\_marginEnd="346dp"  
 android:layout\_marginBottom="604dp"  
 android:text="Username:"  
 android:textSize="18sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
 <EditText  
 android:id="@+id/editText3"  
 android:layout\_width="166dp"  
 android:layout\_height="39dp"  
 android:layout\_marginStart="124dp"  
 android:layout\_marginTop="88dp"  
 android:layout\_marginEnd="54dp"  
 android:layout\_marginBottom="610dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0"/>  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="22dp"  
 android:layout\_marginTop="148dp"  
 android:layout\_marginEnd="346dp"  
 android:layout\_marginBottom="604dp"  
 android:text="Password:"  
 android:textSize="18sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
 <EditText  
 android:id="@+id/editText1"  
 android:layout\_width="166dp"  
 android:layout\_height="39dp"  
 android:layout\_marginStart="124dp"  
 android:layout\_marginTop="138dp"  
 android:layout\_marginEnd="54dp"  
 android:layout\_marginBottom="610dp"  
 android:ems="10"  
 android:inputType="textPassword"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="108dp"  
 android:layout\_marginTop="190dp"  
 android:layout\_marginEnd="215dp"  
 android:layout\_marginBottom="517dp"  
 android:text="SIGN UP"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
</androidx.constraintlayout.widget.ConstraintLayout>

package com.example.myapplication3;  
  
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;  
import android.widget.Toast;  
import java.util.regex.Matcher;  
import java.util.regex.Pattern;  
public class MainActivity extends AppCompatActivity {  
 Button signup;  
 EditText username, password;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 username = findViewById(R.id.*editText3*);  
 password = findViewById(R.id.*editText1*);  
 signup = findViewById(R.id.*button*);  
 signup.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 if(password.getText().toString().length()>=8 &&  
 validatePassword(password.getText().toString())){  
 Toast.*makeText*(getBaseContext(),"Successful Sign UP",Toast.*LENGTH\_LONG*).show();  
 Intent it = new Intent(getBaseContext(),login\_activity.class);  
 Bundle b = new Bundle();  
 b.putString("usern",username.getText().toString());  
 b.putString("pass",password.getText().toString());  
 it.putExtras(b);  
 startActivity(it);  
 }else{  
 Toast.*makeText*(getBaseContext(),"not VALID",Toast.*LENGTH\_LONG*).show();  
 }  
 }  
 });  
 }  
 public boolean validatePassword(String password){  
 Pattern pattern;  
 Matcher matcher;  
 final String PASSWORD\_PATTERN = "^(?=.\*[0-9])(?=.\*[A-Z])(?=.\*[az])(?=.\*[@#$%^&+=!])(?=\\S+$).{8,}$";  
 pattern = Pattern.*compile*(PASSWORD\_PATTERN);  
 matcher = pattern.matcher(password);  
 return matcher.matches();  
 }  
}

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.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:layout\_marginStart="41dp"  
 android:layout\_marginTop="25dp"  
 android:layout\_marginEnd="80dp"  
 android:layout\_marginBottom="172dp"  
 android:text="LOGIN ACTIVITY"  
 android:textColor="#C65D5D"  
 android:textSize="28sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="22dp"  
 android:layout\_marginTop="98dp"  
 android:layout\_marginEnd="346dp"  
 android:layout\_marginBottom="604dp"  
 android:text="Username:"  
 android:textSize="18sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
 <EditText  
 android:id="@+id/l\_username"  
 android:layout\_width="166dp"  
 android:layout\_height="39dp"  
 android:layout\_marginStart="124dp"  
 android:layout\_marginTop="88dp"  
 android:layout\_marginEnd="54dp"  
 android:layout\_marginBottom="610dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0"/>  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="22dp"  
 android:layout\_marginTop="148dp"  
 android:layout\_marginEnd="346dp"  
 android:layout\_marginBottom="604dp"  
 android:text="Password:"  
 android:textSize="18sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
 <EditText  
 android:id="@+id/l\_password"  
 android:layout\_width="166dp"  
 android:layout\_height="39dp"  
 android:layout\_marginStart="124dp"  
 android:layout\_marginTop="138dp"  
 android:layout\_marginEnd="54dp"  
 android:layout\_marginBottom="610dp"  
 android:ems="10"  
 android:inputType="textPassword"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
 <Button  
 android:id="@+id/button\_signin"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="108dp"  
 android:layout\_marginTop="190dp"  
 android:layout\_marginEnd="215dp"  
 android:layout\_marginBottom="517dp"  
 android:text="SIGN IN"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
</androidx.constraintlayout.widget.ConstraintLayout>

package com.example.myapplication3;  
  
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;  
import android.widget.Toast;  
public class login\_activity extends AppCompatActivity {  
 Button lsignin;  
 EditText username, lpassword;  
 int counter = 2;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_login*);  
 username =(EditText) findViewById(R.id.*l\_username*);  
 lpassword=(EditText) findViewById(R.id.*l\_password*);  
 lsignin =(Button) findViewById(R.id.*button\_signin*);  
 lsignin.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Bundle b = getIntent().getExtras();  
 String suser = b.getString("usern");  
 String spass = b.getString("pass");  
 if(suser.toString().equals(username.getText().toString()) && spass.toString().equals(lpassword.getText().toString()))  
 {  
 Intent it = new Intent(getBaseContext(), success.class);  
 startActivity(it);  
 }  
 else  
 {  
 Toast.*makeText*(getBaseContext(),"LOGIN FAILED",Toast.*LENGTH\_LONG*).show();  
 }  
 counter--;  
 if(counter == 0)  
 {  
 Toast.*makeText*(getBaseContext(),"FAILED LOGIN ATTEMPTS",Toast.*LENGTH\_LONG*).show();  
 lsignin.setEnabled(false);  
 }  
 }  
 });  
 }  
}

<?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"  
 android:background="#B5D7DC"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="285dp"  
 android:layout\_height="149dp"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="72dp"  
 android:layout\_marginTop="300dp"  
 android:layout\_marginEnd="54dp"  
 android:layout\_marginBottom="346dp"  
 android:text="SUCCESSFULL LOGIN"  
 android:textAlignment="center"  
 android:textColor="#C65D5D"  
 android:textSize="25dp"  
 android:textStyle="bold|italic"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
</RelativeLayout>

package com.example.myapplication3;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
public class success extends AppCompatActivity {  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_success*);  
 }  
}

4

<?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">

<Button

android:id="@+id/button1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="144dp"

android:layout\_marginRight="144dp"

android:layout\_marginBottom="335dp"

android:text="CLICK HERE" />

</RelativeLayout>

JAVA

import androidx.appcompat.app.AppCompatActivity;

import android.app.WallpaperManager;

import android.graphics.Bitmap;

import android.graphics.BitmapFactory;

import android.graphics.drawable.BitmapDrawable;

import android.graphics.drawable.Drawable;

import android.os.Bundle;

import android.os.Handler;

import android.view.View;

import android.widget.Button;

import android.widget.Toast;

import java.io.IOException;

import java.util.Timer;

import java.util.TimerTask;

public class MainActivity extends AppCompatActivity {

    Button wallpaperChange;

    Timer mytimer;

    Drawable drawable;

    WallpaperManager wpm;

    int prev = 1;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        mytimer = new Timer();

        wpm = WallpaperManager.getInstance(this);

        wallpaperChange = (Button) findViewById(R.id.button1);

        wallpaperChange.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                setwallpaper();

            }

        });

    }

    private void setwallpaper() {

        Toast.makeText(this, "setting Wallpaper please wait.", Toast.LENGTH\_LONG).show();

        mytimer.schedule(new TimerTask() {

            @Override

            public void run() {

                if (prev == 1) {

                    drawable = getResources().getDrawable(R.drawable.i1);

                    prev = 2;

                } else if (prev == 2) {

                    drawable = getResources().getDrawable(R.drawable.i2);

                    prev = 3;

                } else if (prev == 3) {

                    drawable = getResources().getDrawable(R.drawable.i3);

                    prev = 4;

                } else if (prev == 4) {

                    drawable = getResources().getDrawable(R.drawable.i4);

                    prev = 5;

                } else if (prev == 5) {

                    drawable = getResources().getDrawable(R.drawable.i5);

                    prev = 1;

                }

                Bitmap wallpaper = ((BitmapDrawable) drawable).getBitmap();

                try {

                    wpm.setBitmap(wallpaper);

                } catch (IOException e) {

                    e.printStackTrace();

                }

            }

        }, 0, 30000);

    }

}

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<?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">

<TextView

android:id="@+id/textView1"

android:layout\_width="332dp"

android:layout\_height="wrap\_content"

android:layout\_alignParentStart="true"

android:layout\_alignParentLeft="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="41dp"

android:layout\_marginLeft="41dp"

android:layout\_marginEnd="38dp"

android:layout\_marginRight="38dp"

android:layout\_marginBottom="516dp"

android:text="Counter Application"

android:textSize="36sp"

android:textStyle="bold" />

<Button

android:id="@+id/button1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="236dp"

android:layout\_marginRight="236dp"

android:layout\_marginBottom="89dp"

android:text="Start"

android:textSize="30sp"

app:backgroundTint="#4CAF50" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="55dp"

android:layout\_marginRight="55dp"

android:layout\_marginBottom="92dp"

android:text="STOP"

android:textSize="30sp"

app:backgroundTint="#EC5449" />

<TextView

android:id="@+id/textView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="165dp"

android:layout\_marginRight="165dp"

android:layout\_marginBottom="434dp"

android:text="counter value"

android:textSize="18sp"

android:textStyle="bold" />

</RelativeLayout>

JAVA

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.os.Handler;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    TextView txtCounter;

    Button btn\_start,btn\_stop;

    int count=0;

    Handler customHandler=new Handler();

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        txtCounter = (TextView) findViewById(R.id.textView2);

        btn\_start = (Button) findViewById(R.id.button1);

        btn\_stop = (Button) findViewById(R.id.button2);

        btn\_start.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                customHandler.postDelayed(updateTimerThread, 0);

            }

        });

        btn\_stop.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                customHandler.removeCallbacks(updateTimerThread);

            }

        });

    }

    private final Runnable updateTimerThread =new Runnable() {

        @Override

        public void run() {

            txtCounter.setText(""+count);

            customHandler.postDelayed(this,1000);

            count++;

        }

    };

}

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<?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">

<TextView

android:id="@+id/textView"

android:layout\_width="335dp"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="21dp"

android:layout\_marginBottom="486dp"

android:text="Text2Speech"

android:textSize="30sp" />

<EditText

android:id="@+id/editText"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="142dp"

android:layout\_marginBottom="377dp"

android:ems="10"

android:hint="Enter text here"

android:inputType="textPersonName" />

<Button

android:id="@+id/convert"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="196dp"

android:layout\_marginBottom="236dp"

android:onClick="convert"

android:background="#6CEC71"

android:text="CONVERT" />

</RelativeLayout>

JAVA

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.speech.tts.TextToSpeech;

import android.view.View;

import android.widget.EditText;

import java.util.Locale;

public class MainActivity extends AppCompatActivity {

    EditText e1;

    TextToSpeech t1;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        e1=findViewById(R.id.editText);

        t1=new TextToSpeech(getApplicationContext(), new TextToSpeech.OnInitListener()

        {

            @Override

            public void onInit(int status)

            {

                if(status!=TextToSpeech.ERROR){

                    t1.setLanguage(Locale.UK);

                }

            }

        });

    }

    public void convert(View V){

        String tospeak=e1.getText().toString();

        t1.speak(tospeak,TextToSpeech.QUEUE\_FLUSH,null);

    }

}

8

<?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:id="@+id/Button11"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:backgroundTint="#4CAF50"

tools:context=".MainActivity">

<Button

android:id="@+id/button8"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="169dp"

android:layout\_marginBottom="201dp"

android:backgroundTint="#4CAF50"

android:onClick="inputNumber"

android:text="8" />

<Button

android:id="@+id/Button10"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="286dp"

android:layout\_marginBottom="115dp"

android:onClick="inputNumber"

android:backgroundTint="#4CAF50"

android:text="\*" />

<Button

android:id="@+id/saveBtn"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="80dp"

android:layout\_marginBottom="38dp"

android:backgroundTint="#CDDC39"

android:text="Save" />

<Button

android:id="@+id/callBtn"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="209dp"

android:layout\_marginBottom="35dp"

android:backgroundTint="#F44336"

android:text="Call" />

<Button

android:id="@+id/clearBtn12"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="159dp"

android:layout\_marginBottom="116dp"

android:backgroundTint="#4CAF50"

android:onClick="inputNumber"

android:text="0" />

<Button

android:id="@+id/Button7"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="288dp"

android:layout\_marginBottom="201dp"

android:onClick="inputNumber"

android:backgroundTint="#4CAF50"

android:text="7" />

<Button

android:id="@+id/Button9"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="38dp"

android:layout\_marginBottom="201dp"

android:onClick="inputNumber"

android:backgroundTint="#4CAF50"

android:text="9" />

<EditText

android:id="@+id/phoneNumberEditText"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="172dp"

android:layout\_marginBottom="543dp"

android:onClick="inputNumber"

android:ems="10"

android:hint="Phone Number"

android:inputType="phone" />

<Button

android:id="@+id/clearBtn"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="48dp"

android:layout\_marginBottom="544dp"

android:backgroundTint="#E91E63"

android:text="Clear" />

<Button

android:id="@+id/Button12"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="38dp"

android:onClick="inputNumber"

android:layout\_marginBottom="108dp"

android:backgroundTint="#4CAF50"

android:text="#" />

<Button

android:id="@+id/Button1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="291dp"

android:onClick="inputNumber"

android:layout\_marginBottom="380dp"

android:backgroundTint="#4CAF50"

android:text="1" />

<Button

android:id="@+id/Button4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="289dp"

android:onClick="inputNumber"

android:layout\_marginBottom="296dp"

android:backgroundTint="#4CAF50"

android:text="4" />

<Button

android:id="@+id/Button5"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="170dp"

android:onClick="inputNumber"

android:layout\_marginBottom="295dp"

android:backgroundTint="#4CAF50"

android:text="5" />

<Button

android:id="@+id/Button6"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="35dp"

android:layout\_marginBottom="290dp"

android:onClick="inputNumber"

android:backgroundTint="#4CAF50"

android:text="6" />

<Button

android:id="@+id/Button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="172dp"

android:onClick="inputNumber"

android:layout\_marginBottom="380dp"

android:backgroundTint="#4CAF50"

android:text="2" />

<Button

android:id="@+id/Button3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="48dp"

android:onClick="inputNumber"

android:layout\_marginBottom="380dp"

android:backgroundTint="#4CAF50"

android:text="3" />

</RelativeLayout>

JAVA

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.provider.ContactsContract;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import java.net.URI;

public class MainActivity extends AppCompatActivity {

    EditText phoneNumberEditText;

    Button clearBtn,saveBtn,callBtn;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        phoneNumberEditText=findViewById(R.id.phoneNumberEditText);

        clearBtn=findViewById(R.id.clearBtn);

        callBtn=findViewById(R.id.callBtn);

        saveBtn=findViewById(R.id.saveBtn);

        clearBtn.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                phoneNumberEditText.setText("");

            }

        });

        callBtn.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                String phoneNumber=phoneNumberEditText.getText().toString();

                Intent intent= new Intent(Intent.ACTION\_DIAL);

                intent.setData(Uri.parse("tel:"+phoneNumber));

                startActivity(intent);

            }

        });

        saveBtn.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                String phoneNumber=phoneNumberEditText.getText().toString();

                Intent intent=new Intent(Intent.ACTION\_INSERT);

                intent.setType(ContactsContract.Contacts.CONTENT\_TYPE);

                intent.putExtra(ContactsContract.Intents.Insert.PHONE,phoneNumber);

                startActivity(intent);

            }

        });

    }

    public void inputNumber(View v){

        Button btn=(Button)v;

        String digit=btn.getText().toString();

        String phoneNumber=phoneNumberEditText.getText().toString();

        phoneNumberEditText.setText(phoneNumber+digit);

    }

}