```
<?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"/>

```
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>
```

```
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</pre>
```

```
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="#FFFFF" />
<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="#FFFFF" />
<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>
```

```
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_marginEnd="80dp"
        android:layout_marginBottom="172dp"
        android:layout_marginBottom="172dp"
        android:text="SIGN_UP_ACTIVITY"
        android:textSize="28sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0" />
    <TextView
        android:layout_width="wrap_content"</pre>
```

```
android:layout height="wrap content
<EditText
   android:inputType="textPersonName"
   android:inputType="textPassword"
```

```
protected void onCreate(Bundle savedInstanceState) {
   password = findViewById(R.id.editText1);
   signup = findViewById(R.id.button);
    signup.setOnClickListener(new View.OnClickListener() {
        public void onClick(View view) {
            if(password.getText().toString().length()>=8 &&
                    validatePassword(password.getText().toString())){
```

```
}
});

public boolean validatePassword(String password) {
    Pattern pattern;
    Matcher matcher;
    final String PASSWORD_PATTERN = "^(?=.*[0-9])(?=.*[A-Z])(?=.*[@#$%^&+=!])(?=\\S+$).{8,}$";
    pattern = Pattern.compile(PASSWORD_PATTERN);
    matcher = pattern.matcher(password);
    return matcher.matches();
}
```

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
```

```
android:inputType="textPersonName"
<EditText
   android:inputType="textPassword"
```

```
package com.example.myapplication3;
import androidx.appcompat.app.AppCompatActivity;
public class login_activity extends AppCompatActivity {
    protected void onCreate(Bundle savedInstanceState) {
&& spass.toString().equals(lpassword.getText().toString()))
```

```
<?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:layout_width="285dp"
        android:layout_width="285dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="72dp"
        android:layout_marginStart="72dp"
        android:layout_marginEnd="54dp"
        android:layout_marginEnd="54dp"
        android:text="SUCCESSFULL LOGIN"
        android:text="SUCCESSFULL LOGIN"
        android:textColor="#C65D5D"
        android:textSize="25dp"
        and
```

```
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"</pre>
```

```
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>
```

```
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);
```

```
<?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>
```

```
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++;
    };
```

```
<?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"/>
```

```
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>
```

```
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);
```