Main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
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:background="#00BCD5"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <TextView
    android:id="@+id/tv1"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout_marginTop="16dp"
    android:text="Hello World!"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"/>
  <Button
    android:id="@+id/btn1"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout marginTop="152dp"
    android:drawableTop="@android:drawable/button_onoff_indicator_on"
    android:drawableTint="#A59A3F"
    android:hyphenationFrequency="none"
    android:text="Hello"
    android:textColor="#FF9800"
    android:textColorHint="#00BCD4"
    android:textColorLink="#88912D"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Main.java:

```
package com.example.demoapplication;
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 {
  TextView t;
  Button b:
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    t= findViewById(R.id.tv1);
    b=findViewById(R.id.btn1);
    b.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         t.setText("\t\tGood Morning \nWellCome to JNEC");
     });
  }
}
```

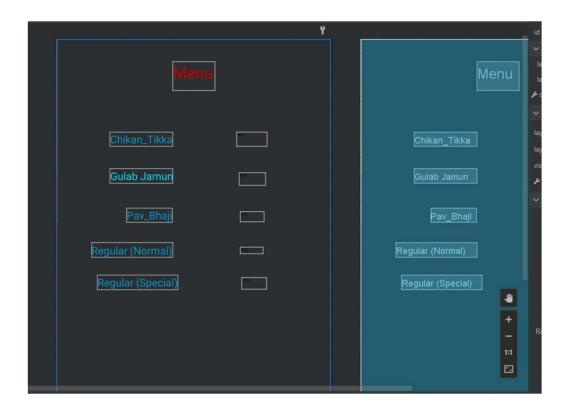
Output:



```
<?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:id="@+id/textView5"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Regular (Special)"
    android:textColor="@android:color/holo_blue_dark"
    android:textSize="16sp"
    tools:layout_editor_absoluteX="61dp"
    tools:layout_editor_absoluteY="354dp" />
  <TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="Regular (Normal)"
    android:textColor="@android:color/holo blue dark"
    android:textSize="16sp"
    tools:layout_editor_absoluteX="52dp"
    tools:layout editor absoluteY="306dp" />
  <TextView
    android:id="@+id/Menu"
    android:layout_width="63dp"
    android:layout_height="44dp"
    android:text="Menu"
    android:textColor="@android:color/holo_red_dark"
    android:textSize="24sp"
    android:visibility="visible"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.048" />
  <ImageView
    android:id="@+id/imageView"
```

```
android:layout width="0dp"
  android:layout_height="0dp"
  app:srcCompat="@drawable/chicken_tikka"/>
<TextView
  android:id="@+id/Chikan_Tikka"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:text="Chikan_Tikka"
  android:textColor="@android:color/holo_blue_dark"
  android:textSize="16sp"
  tools:layout_editor_absoluteX="80dp"
  tools:layout_editor_absoluteY="139dp" />
<ImageView
  android:id="@+id/imageView2"
  android:layout_width="0dp"
  android:layout height="0dp"
  app:srcCompat="@drawable/gulab_jamun" />
<TextView
  android:id="@+id/textView2"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="Gulab Jamun"
  android:textColor="@android:color/holo_blue_bright"
  android:textSize="16sp"
  tools:layout_editor_absoluteX="80dp"
  tools:layout_editor_absoluteY="194dp" />
<TextView
  android:id="@+id/textView3"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:text="Pav_Bhaji"
  android:textColor="@android:color/holo_blue_dark"
  android:textSize="16sp"
  tools:layout editor absoluteX="105dp"
  tools:layout_editor_absoluteY="253dp" />
<CheckBox
  android:id="@+id/checkBox1"
  android:layout_width="46dp"
  android:layout_height="22dp"
  android:text="ADD"
  app:layout_constraintEnd_toEndOf="parent"
```

```
app:layout constraintStart toEndOf="@+id/Chikan Tikka"
    tools:layout_editor_absoluteY="139dp" />
  <CheckBox
    android:id="@+id/checkBox2"
    android:layout_width="39dp"
    android:layout_height="19dp"
    android:text="ADD"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/textView2"
    tools:layout_editor_absoluteY="200dp" />
  <CheckBox
    android:id="@+id/checkBox3"
    android:layout_width="36dp"
    android:layout_height="15dp"
    android:text="ADD"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toEndOf="@+id/textView3"
    tools:layout_editor_absoluteY="259dp" />
  <CheckBox
    android:id="@+id/checkBox4"
    android:layout_width="34dp"
    android:layout_height="10dp"
    android:text="ADD"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/textView4"
    tools:layout_editor_absoluteY="312dp" />
  <CheckBox
    android:id="@+id/checkBox5"
    android:layout_width="37dp"
    android:layout height="17dp"
    android:text="ADD"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/textView5"
    tools:layout_editor_absoluteY="358dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```



```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
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/et2"
    android:layout_width="233dp"
    android:layout_height="0dp"
    android:layout marginBottom="23dp"
    android:ems="10"
    android:hint="Enter 2nd value"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toTopOf="@+id/btnAdd"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/et1"/>
  <EditText
    android:id="@+id/et1"
    android:layout width="237dp"
    android:layout_height="0dp"
    android:layout_marginTop="48dp"
    android:layout_marginBottom="11dp"
    android:ems="10"
    android:hint="Enter 1st value"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toTopOf="@+id/et2"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
  <Button
    android:id="@+id/btnAdd"
    android:layout_width="0dp"
    android:layout_height="0dp"
    android:layout_marginEnd="67dp"
    android:layout_marginBottom="9dp"
    android:text="ADD"
```

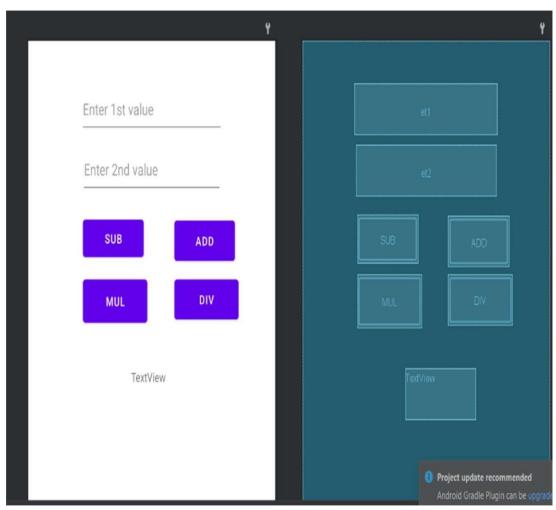
```
app:layout constraintBottom toTopOf="@+id/btndiv"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintStart_toEndOf="@+id/btnsub"
  app:layout_constraintTop_toBottomOf="@+id/et2" />
<TextView
  android:id="@+id/tvans"
  android:layout width="117dp"
  android:layout_height="0dp"
  android:layout marginEnd="62dp"
  android:layout_marginBottom="314dp"
  android:text="TextView"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="@+id/btndiv"
  app:layout_constraintTop_toBottomOf="@+id/btndiv" />
<Button
  android:id="@+id/btnsub"
  android:layout width="0dp"
  android:layout_height="53dp"
  android:layout marginStart="91dp"
  android:layout_marginTop="77dp"
  android:layout_marginEnd="51dp"
  android:layout_marginBottom="72dp"
  android:text="Sub"
  app:layout_constraintBottom_toBottomOf="@+id/btnmulti"
  app:layout_constraintEnd_toStartOf="@+id/btnAdd"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintTop_toTopOf="@+id/et2"/>
<Button
  android:id="@+id/btnmulti"
  android:layout_width="0dp"
  android:layout height="59dp"
  android:layout_marginStart="91dp"
  android:layout_marginTop="9dp"
  android:layout_marginEnd="45dp"
  android:text="MUL"
  app:layout_constraintEnd_toStartOf="@+id/btndiv"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/btnAdd" />
<Button
  android:id="@+id/btndiv"
  android:layout width="0dp"
  android:layout_height="0dp"
```

```
android:layout marginEnd="61dp"
     android:layout_marginBottom="48dp"
     android:text="DIV"
     app:layout_constraintBottom_toTopOf="@+id/tvans"
     app:layout_constraintEnd_toEndOf="parent"
     app:layout_constraintStart_toEndOf="@+id/btnmulti"
     app:layout_constraintTop_toBottomOf="@+id/btnAdd"/>
</androidx.constraintlayout.widget.ConstraintLayout>
Main.java:
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Gravity;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  EditText e1,e2;
  TextView t1:
  Button badd, bsub, bmulti, bdiv;
  int a,b,c;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     setContentView(R.layout.activity_main);
     e1 = findViewById(R.id.et1);
    e2 = findViewById(R.id.et2);
     t1 = findViewById(R.id.tvans);
     badd = findViewById(R.id.btnAdd);
     bsub = findViewById(R.id.btnsub);
     bmulti = findViewById(R.id.btnmulti);
     bdiv = findViewById(R.id.btndiv);
     badd.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         a = Integer.parseInt(e1.getText().toString());
         b = Integer.parseInt(e2.getText().toString());
```

```
c=a+b:
         t1.setText(""+c);
         Toast t= Toast.makeText(MainActivity.this, "Addition"+c,
Toast.LENGTH_SHORT);
         t.setGravity(Gravity.CENTER,0,0);
         t.show();
       }
     });
     bsub.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         a = Integer.parseInt(e1.getText().toString());
         b = Integer.parseInt(e2.getText().toString());
         c=a-b:
         t1.setText(""+c);
         Toast t= Toast.makeText(MainActivity.this, "Substraction"+c,
Toast.LENGTH_SHORT);
         t.setGravity(Gravity.CENTER,0,0);
         t.show();
       }
     });
     bmulti.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         a = Integer.parseInt(e1.getText().toString());
         b = Integer.parseInt(e2.getText().toString());
         c=a*b;
         t1.setText(""+c);
         Toast t= Toast.makeText(MainActivity.this, "Multiplication"+c,
Toast.LENGTH_SHORT);
         t.setGravity(Gravity.CENTER,0,0);
         t.show();
     });
```

```
bdiv.setOnClickListener(new View.OnClickListener() {
    @ Override
    public void onClick(View view) {
        a = Integer.parseInt(e1.getText().toString());
        b = Integer.parseInt(e2.getText().toString());
        c=a/b;
        t1.setText(""+c);

        Toast t= Toast.makeText(MainActivity.this, "Division"+c,
Toast.LENGTH_SHORT);
        t.setGravity(Gravity.CENTER,0,0);
        t.show();
    }
});
}
```





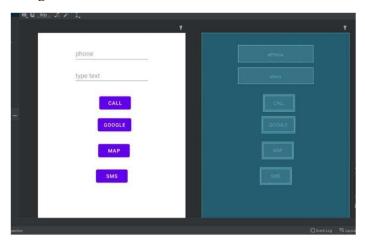
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <EditText
    android:id="@+id/etPhone"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout marginTop="34dp"
    android:ems="10"
    android:hint="phone"
    android:inputType="phone"
    android:minHeight="48dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent"/>
  <Button
    android:id="@+id/btnCall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout marginEnd="1dp"
    android:layout_marginBottom="13dp"
    android:onClick="callclick"
    android:text="Call"
    app:layout_constraintBottom_toTopOf="@+id/btnGoogle"
    app:layout_constraintEnd_toEndOf="@+id/btnGoogle"/>
  <Button
    android:id="@+id/btnGoogle"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout marginStart="5dp"
    android:layout_marginBottom="24dp"
    android:onClick="googleclick"
    android:text="Google"
    app:layout_constraintBottom_toTopOf="@+id/btnMap"
```

```
app:layout constraintStart toStartOf="@+id/btnmsg" />
  <Button
    android:id="@+id/btnMap"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="6dp"
    android:layout_marginBottom="23dp"
    android:onClick="mapclick"
    android:text="Map"
    app:layout_constraintBottom_toTopOf="@+id/btnmsg"
    app:layout_constraintStart_toStartOf="@+id/btnmsg" />
  <Button
    android:id="@+id/btnmsg"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="308dp"
    android:onClick="smsclick"
    android:text="SMS"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent" />
  <EditText
    android:id="@+id/etsms"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="type text"
    android:inputType="textPersonName"
    tools:layout editor absoluteX="101dp"
    tools:layout_editor_absoluteY="97dp" />
</androidx.constraintlayout.widget.ConstraintLayout
Main.java:
package com.example.demodialgoogle;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
```

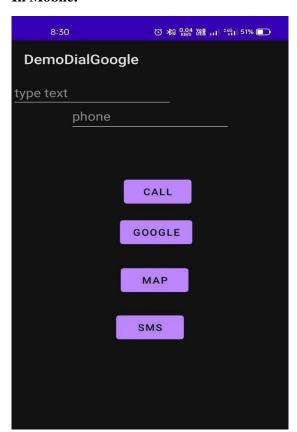
import android.telephony.SmsManager;

```
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  EditText inphone;
  EditText insms;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     setContentView(R.layout.activity_main);
    inphone = findViewById(R.id.etPhone);
  }
  public void callclick(View view) {
     String phoneNo = inphone.getText().toString();
     Intent i = new Intent(Intent.ACTION_DIAL);
    i.setData(Uri.parse("tel:+91"+phoneNo));
    startActivity(i);
  }
  public void googleclick(View view) {
     Intent i = new Intent(Intent.ACTION_VIEW);
    i.setData(Uri.parse("https://www.google.com/"));
     startActivity(i);
  }
  public void mapclick(View view) {
     Intent i = new Intent(Intent.ACTION_VIEW);
    i.setData(Uri.parse("geo:19.8786655,75.3557075"));
     startActivity(i);
  }
  public void smsclick(View view) {
     SmsManager sms = SmsManager.getDefault();
     sms.sendTextMessage(inphone.getText().toString(),null,"hello",null,null);
    Toast.makeText(MainActivity.this, "SMS Successfull!",
Toast.LENGTH_SHORT).show();
}
```

Design:



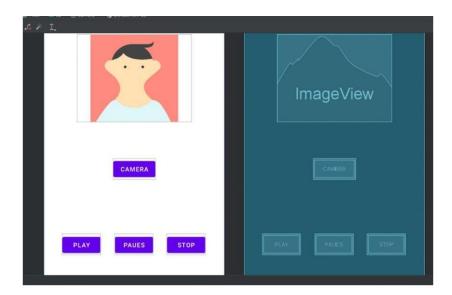
In Mobile:



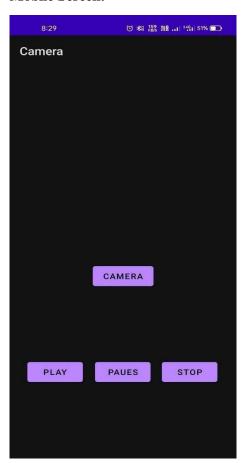
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <ImageView
    android:id="@+id/imgv1"
    android:layout_width="0dp"
    android:layout_height="0dp"
    android:layout marginStart="75dp"
    android:layout_marginTop="95dp"
    android:layout_marginEnd="75dp"
    android:layout_marginBottom="83dp"
    app:layout_constraintBottom_toTopOf="@+id/cambtn"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    tools:srcCompat="@tools:sample/avatars"/>
  <Button
    android:id="@+id/cambtn"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout_marginBottom="125dp"
    android:onClick="captureimage"
    android:text="Camera"
    app:layout_constraintBottom_toTopOf="@+id/btnstop"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/imgv1" />
  <Button
    android:id="@+id/btnplay"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout marginStart="10dp"
    android:layout_marginEnd="1dp"
    android:layout_marginBottom="132dp"
```

```
android:onClick="playmusic"
    android:text="Play"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toStartOf="@+id/btnpause"
    app:layout constraintStart toStartOf="parent"/>
  <Button
    android:id="@+id/btnpause"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:onClick="pausemusic"
    android:text="paues"
    app:layout_constraintBaseline_toBaselineOf="@+id/btnstop"
    app:layout_constraintEnd_toStartOf="@+id/btnstop"
    app:layout_constraintStart_toEndOf="@+id/btnplay"/>
  <Button
    android:id="@+id/btnstop"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout marginEnd="12dp"
    android:layout_marginBottom="132dp"
    android:onClick="stopmusic"
    android:text="stop"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/btnpause"
    app:layout constraintTop toBottomOf="@+id/cambtn" />
</androidx.constraintlayout.widget.ConstraintLayout>
Main.java:
package com.example.camera;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.graphics.Bitmap;
import android.media.MediaParser;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.widget.ImageView;
```

```
public class MainActivity extends AppCompatActivity {
  ImageView img;
  MediaPlayer mp;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
     setContentView(R.layout.activity_main);
    img = findViewById(R.id.imgv1);
     mp = MediaPlayer.create(MainActivity.this,R.raw.realme);
  }
  public void captureimage(View view) {
     Intent i = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
    startActivityForResult(i,0);
  }
  @Override
  protected void onActivityResult(int requestCode, int resultCode, Intent data) {
     super.onActivityResult(requestCode, resultCode, data);
     Bitmap b = (Bitmap) data.getExtras().get("data");
    img.setImageBitmap(b);
  }
  public void playmusic(View view) {
     mp.start();
  public void pausemusic(View view) {
     mp.pause();
  }
  public void stopmusic(View view) {
     mp.stop();
     mp = MediaPlayer.create(MainActivity.this,R.raw.realme);
  }
```



Mobile Screen:

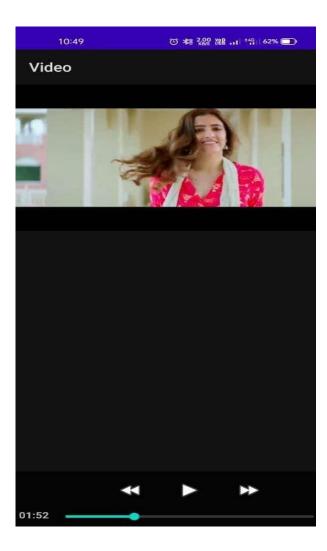


Main.Xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
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">
  <FrameLayout
    android:layout_width="417dp"
    android:layout_height="727dp"
    tools:layout_editor_absoluteX="1dp"
    tools:layout editor absoluteY="3dp">
    <VideoView
       android:id="@+id/videoV"
       android:layout_width="wrap_content"
       android:layout_height="wrap_content"/>
  </FrameLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
Main.java
package com.example.video;
import androidx.appcompat.app.AppCompatActivity;
import android.net.Uri;
import android.os.Bundle;
import android.widget.MediaController;
import android.widget.VideoView;
public class MainActivity extends AppCompatActivity {
  VideoView vv;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    vv=findViewById(R.id.videoV);
    String videopath= "android.resource://"+getPackageName()+"/"+R.raw.akshay;
    Uri url=Uri.parse(videopath);
```

```
vv.setVideoURI(url);

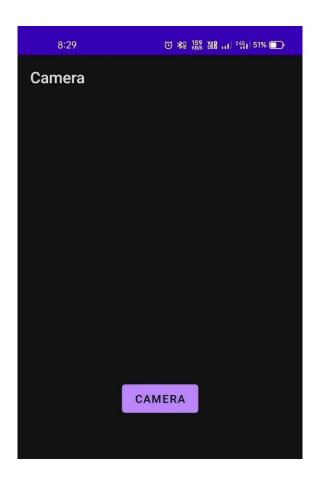
MediaController mdc = new MediaController(MainActivity.this);
vv.setMediaController(mdc);
mdc.setAnchorView(vv);
}
```



```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
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">
  <ImageView
    android:id="@+id/imgv1"
    android:layout_width="0dp"
    android:layout_height="0dp"
    android:layout marginStart="75dp"
    android:layout_marginTop="95dp"
    android:layout_marginEnd="75dp"
    android:layout_marginBottom="83dp"
    app:layout constraintBottom toTopOf="@+id/cambtn"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
     app:layout constraintTop toTopOf="parent"
     tools:srcCompat="@tools:sample/avatars"/>
  <Button
    android:id="@+id/cambtn"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout_marginBottom="125dp"
    android:onClick="captureimage"
    android:text="Camera"
    app:layout_constraintBottom_toTopOf="@+id/btnstop"
    app:layout_constraintEnd_toEndOf="parent"
     app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/imgv1" />
</androidx.constraintlayout.widget.ConstraintLayout>
Main.java:
package com.example.camera;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
import android.graphics.Bitmap;
import android.media.MediaParser;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.widget.ImageView;
public class MainActivity extends AppCompatActivity {
  ImageView img;
  MediaPlayer mp;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     setContentView(R.layout.activity_main);
    img = findViewById(R.id.imgv1);
     mp = MediaPlayer.create(MainActivity.this,R.raw.realme);
  public void captureimage(View view) {
     Intent i = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
    startActivityForResult(i,0);
  }
  @Override
  protected void onActivityResult(int requestCode, int resultCode, Intent data) {
     super.onActivityResult(requestCode, resultCode, data);
     Bitmap b = (Bitmap) data.getExtras().get("data");
    img.setImageBitmap(b);
  }
  public void playmusic(View view) {
     mp.start();
  }
  public void pausemusic(View view) {
     mp.pause();
  public void stopmusic(View view) {
     mp.stop();
     mp = MediaPlayer.create(MainActivity.this,R.raw.realme);
```

```
}
```



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CODE:8

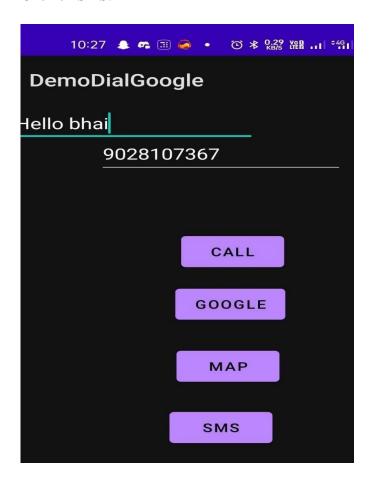
```
Mainactivity.java
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  package="com.example.demodialgoogle">
<uses-permission android:name="android.permission.SEND SMS"/>
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic launcher"
    android:label="@string/app_name"
    android:roundIcon="@mipmap/ic_launcher_round"
    android:supportsRtl="true"
    android:theme="@style/Theme.DemoDialGoogle">
    <activity
       android:name=".MainActivity"
       android:exported="true">
       <intent-filter>
         <action android:name="android.intent.action.MAIN" />
         <category android:name="android.intent.category.LAUNCHER" />
       </intent-filter>
    </activity>
  </application>
</manifest>
activity_main.xml
<?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">
 <Button
    android:id="@+id/btnmsg"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="308dp"
    android:onClick="smsclick"
    android:text="SMS"
```

```
app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" />

<EditText
    android:id="@+id/etsms"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    tools:layout_editor_absoluteX="101dp"
    tools:layout_editor_absoluteY="97dp" />
```

$<\!\!/ and roidx. constraint layout. widget. Constraint Layout$

Click on SMS:

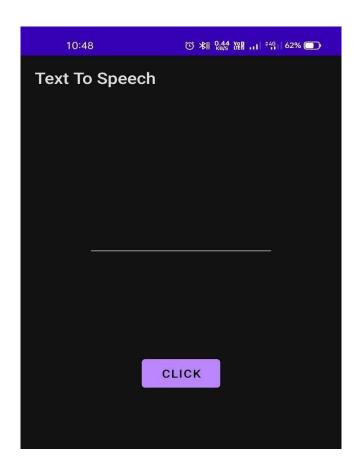


Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
android:layout_margin="30dp"
tools:context=".MainActivity">
<EditText
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/Text"
android:layout_marginBottom="20dp"
android:hint="Enter Any Sentence"
android:gravity="center"
android:textSize="16dp"/>
<Button
android:layout_width="wrap_content"
android:id="@+id/btnText"
android:layout_height="wrap_content"
android:text="Click Here"
android:layout_gravity="center"/>
<TextView
android:id="@+id/textView"
android:layout_width="match_parent"
android:layout_height="wrap_content"
```

```
android:layout_marginTop="70dp"
android:gravity="center horizontal"
android:text="Enter your Message"
android:textColor="@android:color/holo_green_dark"
android:textSize="36sp"/>
</LinearLayout>
MainActivity.java
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.speech.tts.TextToSpeech;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import java.util.Locale;
public class MainActivity extends AppCompatActivity {
EditText Text;
Button btnText;
TextToSpeech textToSpeech;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
Text = findViewById(R.id.Text);
btnText = findViewById(R.id.btnText);
textToSpeech = new TextToSpeech(getApplicationContext(), new
TextToSpeech.OnInitListener() {
@Override
public void onInit(int i) {
if(i!=TextToSpeech.ERROR){
```

```
textToSpeech.setLanguage(Locale.UK);
}
}
});
btnText.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
textToSpeech.speak(Text.getText().toString(),TextToSpeech.QUEUE_FLUSH,null);
}
});
}
});
```



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Mainactivity.java

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  package="com.example.demodialgoogle">
<uses-permission android:name="android.permission.CALL_PHONE"/>
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app_name"
    android:roundIcon="@mipmap/ic_launcher_round"
    android:supportsRtl="true"
    android:theme="@style/Theme.DemoDialGoogle">
    <activity
       android:name=".MainActivity"
       android:exported="true">
       <intent-filter>
         <action android:name="android.intent.action.MAIN" />
         <category android:name="android.intent.category.LAUNCHER" />
       </intent-filter>
     </activity>
  </application>
</manifest>
```

```
<?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">

    <EditText
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="34dp"
    android:ems="10"</pre>
```

```
android:hint="phone"
    android:inputType="phone"
    android:minHeight="48dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"/>
  <Button
    android:id="@+id/btnCall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="1dp"
    android:layout_marginBottom="13dp"
    android:onClick="callclick"
    android:text="Call"
    app:layout_constraintBottom_toTopOf="@+id/btnGoogle"
    app:layout_constraintEnd_toEndOf="@+id/btnGoogle"/>
</androidx.constraintlayout.widget.ConstraintLayout
```

Mobile Screen:

