implicitIntent:

Activity.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"  
 tools:context=".MainActivity"  
 android:orientation="vertical">  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/myphone"  
 android:hint="Enter the Phone Number"  
 android:layout\_margin="20dp"  
 />  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/call"  
 android:text="CALL"  
 android:layout\_margin="20dp"/>  
  
</LinearLayout>

Java

package com.example.implicititntent;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.net.Uri;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
 EditText no;  
 Button call;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 no=findViewById(R.id.*myphone*);  
 call=findViewById(R.id.*call*);  
  
 call.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Uri myuri = Uri.*parse*("tel:"+no.getText().toString());  
 Intent it= new Intent(Intent.*ACTION\_DIAL*, myuri);  
 startActivity(it);  
 }  
 });  
 }  
}

explicitintent:

<?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"  
 tools:context=".MainActivity"  
 android:orientation="vertical">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Enter your name:"  
 android:textSize="40dp"  
 android:fontFamily="casual"  
 android:layout\_margin="40dp"  
 android:textColor="@color/black"  
 />  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="40dp"  
 android:gravity="center"  
 android:hint="Name"  
 android:id="@+id/name"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="CLICK"  
 android:id="@+id/click"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginRight="40dp"  
 />  
  
  
</LinearLayout>

<?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"  
 tools:context=".MainActivity2"  
 android:orientation="vertical">  
  
 <TextView  
 android:id="@+id/name2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="60dp"  
 android:text="NAME COMES HERE"  
 android:textSize="30dp"  
 android:textAlignment="center"  
 />  
</LinearLayout>

Java

package com.example.explicitintent;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
 Button click;  
 EditText name;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 click=findViewById(R.id.*click*);  
 name=findViewById(R.id.*name*);  
  
 click.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent it= new Intent(MainActivity.this, MainActivity2.class);  
 Bundle B= new Bundle();  
 B.putString("name",name.getText().toString());  
 it.putExtras(B);  
 startActivity(it);  
 }  
 });  
 }  
}

package com.example.explicitintent;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.widget.TextView;  
  
public class MainActivity2 extends AppCompatActivity {  
TextView name2;  
String namefrist="";  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main2*);  
  
 name2=findViewById(R.id.*name2*);  
 namefrist=getIntent().getStringExtra("name");  
 name2.setText(namefrist);  
 }  
}

lifecycle:

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">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Java

package com.example.activitylifecycle;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onStart() {  
 super.onStart();  
 Toast.*makeText*(this,"ACTIVITY Started",Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onPause() {  
 super.onPause();  
 Toast.*makeText*(this,"ACTIVITY Paused",Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onStop() {  
 super.onStop();  
 Toast.*makeText*(this,"ACTIVITY STOPPED",Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onDestroy() {  
 super.onDestroy();  
 Toast.*makeText*(this,"ACTIVITY DESTROYED",Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onResume() {  
 super.onResume();  
 Toast.*makeText*(this,"ACTIVITY Resumed",Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 Toast.*makeText*(this,"ACTIVITY CREATED",Toast.*LENGTH\_SHORT*).show();  
  
 }  
}

mediaplayer:

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"  
 tools:context=".MainActivity"  
 android:background="#000000"  
 android:orientation="vertical">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="MEDIA PLAYER"  
 android:gravity="center"  
 android:textSize="40dp"  
 android:layout\_margin="40dp"  
 android:fontFamily="casual"  
 android:textColor="@color/white"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:text="PLAY"  
 android:id="@+id/play"  
 />  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:text="Pause"  
 android:id="@+id/pause"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:text="stop"  
 android:id="@+id/stop"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:text="RESTART"  
 android:id="@+id/restart"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:text="FORWARD"  
 android:id="@+id/forward"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:text="BACKWARD"  
 android:id="@+id/backward"  
 />  
  
  
</LinearLayout>

Java

package com.example.mediapalyer;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.media.MediaPlayer;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 Button play,pause,stop,reset,forward,backward;  
 MediaPlayer mediaPlayer;  
int starttime=0;  
int stoptime=0;  
int forwardtime=5000;  
int backwardtime=5000;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 play=findViewById(R.id.*play*);  
 pause=findViewById(R.id.*pause*);  
 stop=findViewById(R.id.*stop*);  
 reset=findViewById(R.id.*restart*);  
 forward=findViewById(R.id.*forward*);  
 backward=findViewById(R.id.*backward*);  
  
 play.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Toast.*makeText*(MainActivity.this,"Playing media",Toast.*LENGTH\_SHORT*).show();  
 mediaPlayer= MediaPlayer.*create*(MainActivity.this, R.raw.*arabic*);  
 mediaPlayer.start();  
 }  
 });  
  
 pause.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 mediaPlayer.pause();  
 }  
 });  
  
 stop.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 mediaPlayer.stop();  
 }  
 });  
  
 reset.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 mediaPlayer.seekTo(starttime);  
 mediaPlayer.start();  
 }  
 });  
  
 forward.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 int currentpos = mediaPlayer.getCurrentPosition() ;  
 if((currentpos+5000) <= (stoptime =mediaPlayer.getDuration()))  
 {  
 mediaPlayer.seekTo(currentpos+5000);  
 }  
 }  
 });  
  
  
 backward.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Toast.*makeText*(MainActivity.this, "Rewind", Toast.*LENGTH\_SHORT*).show();  
 int currentpos = mediaPlayer.getCurrentPosition() ;  
 if((currentpos-5000) >= starttime)  
 {  
 mediaPlayer.seekTo(currentpos-5000);  
 }  
 }  
 });  
  
 }  
  
}

calculator:

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"  
 tools:context=".MainActivity"  
 android:orientation="vertical">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="40dp"  
 android:textColor="@color/black"  
 android:fontFamily="cursive"  
 android:text="CALCULATOR"  
 android:layout\_margin="20dp"  
 android:gravity="center" />  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="RESULT"  
 android:layout\_margin="20dp"  
 android:gravity="end"  
 android:textSize="20dp"  
 android:id="@+id/res"  
 />  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:layout\_marginBottom="20dp"  
 android:layout\_marginRight="20dp"  
 android:layout\_marginLeft="20dp">  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="9"  
 android:textSize="20dp"  
 android:id="@+id/nine"  
 android:background="@color/teal\_200"  
 android:layout\_weight="0.25"  
 />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="8"  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/eight"  
 android:layout\_weight="0.25"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="7"  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/seven"  
 android:layout\_weight="0.25"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="C"  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/clear"  
 android:layout\_weight="0.25"  
 />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:layout\_marginBottom="20dp"  
 android:layout\_marginRight="20dp"  
 android:layout\_marginLeft="20dp">  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="6"  
 android:textSize="20dp"  
 android:id="@+id/six"  
 android:background="@color/teal\_200"  
 android:layout\_weight="0.25"  
 />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="5"  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/five"  
 android:layout\_weight="0.25"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="4"  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/four"  
 android:layout\_weight="0.25"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="+"  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/add"  
 android:layout\_weight="0.25"  
 />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:layout\_marginBottom="20dp"  
 android:layout\_marginRight="20dp"  
 android:layout\_marginLeft="20dp">  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="3"  
 android:textSize="20dp"  
 android:id="@+id/three"  
 android:background="@color/teal\_200"  
 android:layout\_weight="0.25"  
 />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="2"  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/two"  
 android:layout\_weight="0.25"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="1"  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/one"  
 android:layout\_weight="0.25"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="-"  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/sub"  
 android:layout\_weight="0.25"  
 />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:layout\_marginBottom="20dp"  
 android:layout\_marginRight="20dp"  
 android:layout\_marginLeft="20dp">  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="/"  
 android:textSize="20dp"  
 android:id="@+id/div"  
 android:background="@color/teal\_200"  
 android:layout\_weight="0.25"  
 />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="0"  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/zero"  
 android:layout\_weight="0.25"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="="  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/equal"  
 android:layout\_weight="0.25"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="\*"  
 android:textSize="20dp"  
 android:background="@color/white"  
 android:id="@+id/multi"  
 android:layout\_weight="0.25"  
 />  
  
 </LinearLayout>  
</LinearLayout>

Java:

package com.example.calc;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
 EditText res;  
 Button one,two,three,four,five,six,seven,eight,nine,zero;  
 Button add,sub,div,multi,clear,equals;  
 String operator="";  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 one=findViewById(R.id.*one*);  
 two=findViewById(R.id.*two*);  
 three=findViewById(R.id.*three*);  
 four=findViewById(R.id.*four*);  
 five=findViewById(R.id.*five*);  
 six=findViewById(R.id.*six*);  
 seven=findViewById(R.id.*seven*);  
 eight=findViewById(R.id.*eight*);  
 nine=findViewById(R.id.*nine*);  
 zero=findViewById(R.id.*zero*);  
  
 add=findViewById(R.id.*add*);  
 sub=findViewById(R.id.*sub*);  
 multi=findViewById(R.id.*multi*);  
 div=findViewById(R.id.*div*);  
 clear=findViewById(R.id.*clear*);  
 equals=findViewById(R.id.*equal*);  
  
 res=findViewById(R.id.*res*);  
  
 one.setOnClickListener(this);  
 two.setOnClickListener(this);  
 three.setOnClickListener(this);  
 four.setOnClickListener(this);  
 five.setOnClickListener(this);  
 six.setOnClickListener(this);  
 seven.setOnClickListener(this);  
 eight.setOnClickListener(this);  
 nine.setOnClickListener(this);  
 add.setOnClickListener(this);  
 sub.setOnClickListener(this);  
 multi.setOnClickListener(this);  
 div.setOnClickListener(this);  
 clear.setOnClickListener(this);  
 equals.setOnClickListener(this);  
 zero.setOnClickListener(this);  
 }  
  
 @Override  
 public void onClick(View view) {  
 double Fres=0.0;  
 switch (view.getId())  
 {  
 case R.id.*one*: res.append("1");  
 break;  
 case R.id.*two*:res.append("2");  
 break;  
 case R.id.*three*:res.append("3");  
 break;  
 case R.id.*four*:res.append("4");  
 break;  
 case R.id.*five*:res.append("5");  
 break;  
 case R.id.*six*:res.append("6");  
 break;  
 case R.id.*seven*:res.append("7");  
 break;  
 case R.id.*eight*:res.append("8");  
 break;  
 case R.id.*nine*:res.append("9");  
 break;  
 case R.id.*zero*:res.append("0");  
 break;  
  
 case R.id.*add*:res.append("+");  
 operator="+";  
 break;  
 case R.id.*sub*:res.append("-");  
 operator="-";  
 break;  
 case R.id.*multi*:res.append("\*");  
 operator="\*";  
 break;  
 case R.id.*div*:res.append("/");  
 operator="/";  
 break;  
 case R.id.*clear*:res.setText("");  
 break;  
 case R.id.*equal*:Fres=evaluateExpression(res.getText().toString(),operator);  
 res.setText(String.*valueOf*(Fres));  
 break;  
 }  
 }  
  
 private double evaluateExpression(String toString, String operator)  
 {  
 String[] tokens= toString.split("\\+|-|\\\*|\\/");  
  
 double firstOperand = Double.*parseDouble*(tokens[0]);  
 double secondOperand = Double.*parseDouble*(tokens[1]);  
 switch(operator)  
 {  
 case "+": return firstOperand + secondOperand;  
 case "-": return firstOperand - secondOperand;  
 case "\*": return firstOperand \* secondOperand;  
 case "/": return firstOperand / secondOperand;  
 default: return 0;  
 }  
  
 }  
  
}