

hello


OK

TextView t
Button btn;

```
protected void onCreate()
```

```
{  
    t = (TextView) findViewById(R.id.textView);
```

```
    btn = (Button) findViewById(R.id.button);
```

```
    btn.setOnClickListener(new    
    {  
        capital o
```

```
        public void onClick(View v)
```

```
        {  
            t.setText("how are u");
```

```
        }  
    }  
}
```

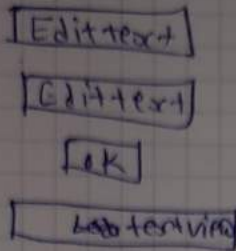
To run your APP in mobile

setting → About phone → search

build number → click on build number

7 times → select developer option.

→ enable USB debugging



```
public class MainActivity
```

```
{
    EditText t1, t2;
```

```
    Button btn;
```

```
    TextView tv;
```

```
    protected void onCreate()
```

```
{
    t1 = (EditText) findViewById(R.id.edittext1);
    t2 = (EditText) findViewById(R.id.edittext2);
    btn = (Button) findViewById(R.id.button);
    tv = (TextView) findViewById(R.id.textview);
```

```
    btn.setOnClickListener(new
```

```
        view.OnClickListener()
```

```
{
```

```
    public void onClick()
```

```
{
        String s1 = t1.getText().toString();
```

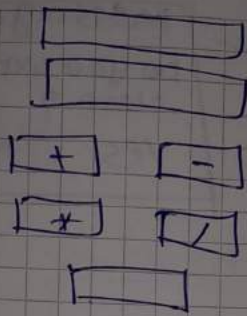
```
        String s2 = t2.getText().toString();
```

```
        tv.setText(s1+s2);
```

```
    }
```

```
}
```

```
}
```



```

{ MainActivity
  Button ba, bs, bm, bd;
  EditText t1, t2;
  TextView tv;

```

```

protected void onCreate
{

```

```

t1;
t2;
tv;

```

```

t1 = (EditText) findViewById(R.id.editText);
t2 = (EditText) findViewById(R.id.editText);
ba = (Button) findViewById(R.id.button);
bm = (Button) findViewById(R.id.button);
bs = (Button) findViewById(R.id.button);
bd = (Button) findViewById(R.id.button);

```

```

ba.setOnClickListener(new OnClickListener()
{

```

```

try{
get;

```

```

public void onClick

```

```

String s1 = t1.getText().toString();
String s2 = t2.getText().toString();

```

```

int a = Integer.parseInt(s1);
int b = Integer.parseInt(s2);

```

```

int c = a + b;
tv.setText(Integer.toString(c));
}

```

```

});

```


AlertDialog box

OK

message

Do you want to close?

yes

no

Main Activity

Button btn

oncreate

{

demo();

}

public void demo()

{

btn = (Button) findViewById(R.id.button);
btn.setOnClickListener(new View.

OnClickListener() {

public void onClick()

{

AlertDialog.Builder builder = new AlertDialog.Builder
(MainActivity.this);

builder.setTitle("message");

builder.setMessage("Do you want to close it?");

builder.setPositiveButton("yes", new

DialogInterface.OnClickListener

{

finish();

}

builder.setNegativeButton("No", new

DialogInterface.OnClickListener

{

dialog.cancel();

});

builder.show();

});

Explicite Intent

Intent ← message passing / data transfer

Main

```
Button btn;  
EditText et;
```

```
onCreate ()  
{
```

```
    btn = (Button) findViewById(R.id.button);  
    et = (EditText) findViewById(R.id.edittext);
```

```
    btn.setOnClickListener  
{
```

```
        click()  
    }
```

```
        Intent intent = new Intent (
```

```
            MainActivity.this, MainActivity.class)
```

```
            intent.putExtra ("data", et.getText());
```

```
            // storing  
        );
```

```
        startActivity (intent);
```

```
    }  
} // main
```

```
TextView tv;
```

```
onCreate ()  
{
```

```
    tv = (TextView) findViewById(R.id.textview);
```

```
    Intent intent = getIntent();
```

```
    tv.setText (intent.getStringExtra  
        ("data"));
```

```
}
```

com.example.myapplication

File → New → Activity → Empty Activity

checkbox

☐ BCA

☐ MCA

```
checkbox c1, c2;  
Button btn;  
TextView t1;
```

```
c1 = (CheckBox) findViewById(R.id.checkbox1);  
c2 = (CheckBox) findViewById(R.id.checkbox2);
```

```
btn = (Button) findViewById(R.id.Button);
```

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

```
btn.setOnClickListener(  
{
```

```
StringBuffer result = new StringBuffer();
```

```
if (c1.isChecked())
```

```
{  
    result.append("BCA");  
}
```

```
if (c2.isChecked())
```

```
{  
    result.append("MCA");  
}
```

```
Toast.makeText(getApplicationContext()  
    , result.toString(), Toast.LENGTH_LONG  
    .show();
```

AutocompleteTextView

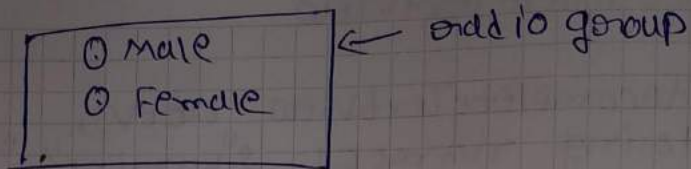
```
AutocompleteTextView actv;  
String name[] = {"Kamini", "Hiren", "Devanshi"};
```

```
onCreate()  
{
```

```
actv = (AutocompleteTextView) findViewById  
(R.id.completeautocompleteTextView);
```

```
ArrayAdapter adapter = new ArrayAdapter  
(MainActivity.this, android.R.layout  
.select_dialog_item, name);
```

```
actv.setAdapter(adapter);  
actv.setThreshold(1);
```

Main

`onRadioButton (r1, r2)`

`{ onCreate ()`

`r1 = (RadioButton) findViewById (R.id.radioButton);`
`r2 = (") " (R.id.radioButton);`

`r1.setOnClickListener (new View.OnClickListener ()`

`{`
`onClick ()`
`{`

`Toast.makeText (MainActivity.this,`
`r1.getText ().toString (),`
`Toast.LENGTH_LONG).show ();`

`}`

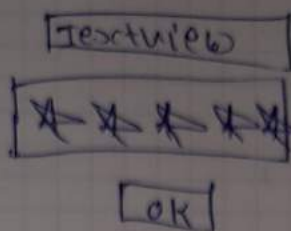
`}`

`r2.setOnClickListener (new capitalOnClickListener ()`

`{`
`onClick ()`
`{`

`Toast.makeText (MainActivity.this,`
`r2.getText ().toString (),`
`Toast.LENGTH_LONG).show ();`
`}`

RatingBar



RatingBar rrb;

TextView tl;

Button b1;

String stor;

oncreate {

b1 = (Button) findViewById(R.id.button);

tl = (TextView) findViewById(R.id.textView);

rrb = (RatingBar) findViewById(R.id.ratingBar);

rrb.setOnRatingBarChangeListener {

String.valueOf(rrb.getRating());

stor = Float.toString(stor);

tl.setText(stor);

});

b1.setOnClickListener {

{

onClick {

Toast.makeText(MainActivity.this,

stor, Toast.LENGTH_LONG).show();

}

});

calendar view

MainActivity

CalendarView cal;

onCreate() {

cal = (CalendarView) findViewById(
R.id.calendarview);

cal.setOnDateChangeListener(
new OnDateChangeListener() {

onDateChanged(CalendarView view,
int year, int month, int dayOfMonth) {
Toast.makeText(getApplicationContext(),
dayOfMonth + "/" + (month + 1) +
"/" + year, Toast.LENGTH_LONG).
show();

}

}

ProgressBar

mainActivity

```
int progress = 0;
```

```
ProgressBar pb;
```

```
Button btn;
```

```
onCreate ( )
```

```
{
```

```
pb = (ProgressBar) findViewById (R.id.progressBar);
```

```
btn = (Button) findViewById (R.id.button);
```

```
btn.setOnClickListener (new ()
```

```
{
```

```
setProgressvalue (progress);
```

```
}
```

```
}
```

```
private void setProgressvalue (final int progress)
```

```
{ pb.setProgress (progress);
```

```
Thread thread = new Thread (new Runnable ()
```

```
{
```

```
public void run ()
```

```
{
```

```
try
```

```
{ Thread.sleep (1000);
```

```
}
```

```
catch (InterruptedException e)
```

```
{
```

```
e.printStackTrace ();
```

```
}
```

```
setProgressvalue (progress + 10);
```

```
}
```

```
});
```

```
thread.start ();
```

```
}
```

```
}
```


Image Button

activity-main.xml

android:src="@drawable/js "

Note:

1. Insert image in drawable

2. Right click on drawable → Show in

• Explorer → Paste image

MainActivity.java

ImageButton imgb;

onCreate() {

imgb = (ImageButton) findViewById by id

(R.id.imageButton);

imgb.setOnClickListener (new () {

Toast.makeText (MainActivity.this,

"Hello", Toast.LENGTH_LONG)

.show();

})

calendarView

CalendarView cal;

```
onCreate ()  
{
```

```
cal = (CalendarView) findViewById  
    (R.id.calendarView);
```

```
cal.setOnDateChangeListener (new ()  
{
```

```
    Toast.makeText(getApplicationContext(),  
        dayOfMonth + "/" + (month + 1) + "/" +  
        year, Toast.LENGTH_LONG).show();
```

```
    }
```

```
}
```

WebView

```
onCreate() {
```

```
    WebView myview = (WebView) findViewById(R.id.webview);
```

```
    myview.loadUrl("http://pomis.in");
```

```
}
```

AndroidManifest.xml

```
<uses-permission android:name="android.permission.INTERNET"></uses-permission>
```


menu ^{yes} → ~~com.example.myapplication~~ → new → Android Resource File

File name: main-menu.

Resource type: menu

Source set: main

Directory name: menu

* Note: It will create main-menu.xml file



MainActivity.java

```
@Override
public boolean onCreateOptionsMenu(menu menu)
{
    MenuInflater inflater = getMenuInflater();
    inflater.inflate(R.menu.main-menu, menu);
    return true;
}

@Override
public boolean onOptionsItemSelected(@NonNull MenuItem item)
{
    switch (item.getItemId())
    {
        case R.id.item1:
            Intent intent1 = new Intent(this, Item1.class);
            intent1.putExtra("data", "Item1 is display");
            this.startActivity(intent1);
            return true;
    }
}
```

```
case R.id.Item2
```

```
Intent intent2 = new Intent  
(this, Item2.class);
```

```
intent2.putExtra("data", Item2  
    is display");
```

```
this.startActivity(intent2);
```

```
return true;
```

```
}
```

```
return super.onOptionsItemSelected(item);
```

```
}
```

```
}
```

Item1.java

```
TextView t1;
```

```
onCreate() {
```

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

```
Intent intent1 = getIntent();
```

```
t1.setText(intent1.getStringExtra("data"));
```

```
}
```

Item2.java

```
TextView t2;
```

```
onCreate() {
```

```
t1 = (TextView) findViewById(R.id.textView2);
```

```
Intent intent2 = getIntent();
```

```
t1.setText(intent2.getStringExtra("data"));
```

```
}
```



Video player

AndroidManifest.xml

```
<uses-permission android:name="android.permission
    .INTERNET"> </uses-permission>
```

MainActivity.java

```
onCreate()
{
    VideoView videoview = (VideoView) findViewById
        (R.id.videoview);
    videoview.setVideoURI(Uri.parse("https://-----"));
    videoview.start();

    MediaController vidcontrol = new MediaController
        (this);
    // vidcontrol.setAnchorView(videoview)
    videoview.setMediaController(vidcontrol);

    or
```

```
String path = "android.resource://
    com.example.myapplication/
    + R.raw.small";
    videoview.setVideoURI(Uri.parse(path));
```


50 Implicit Intent

EditText

OK

→ Main Activity

Button btn;
EditText etn;

→ onCreate ()
{

etn = (EditText) findViewById(R.id
- editText)

btn = (Button) findViewById(R.id.button)

btn.setOnClickListener(new View.OnClickListener() {

String uri = etn.getText().toString();

Intent intent = new Intent

(Intent.ACTION_VIEW,

Uri.parse(uri));

startActivity(intent);

});

}

}

Image Button With Implicit Intent

Activity - main.xml

android:src="@drawable/is"

android:scaleType="fitCenter"

Note:- insert image in drawable
right click on drawable → show in
Explorer → paste image

MainActivity.java

ImageButton btn;

onCreate()
{

btn = (ImageButton) findViewById(R.id.
imageButton);

btn.setOnClickListener(new View.OnClickListener()
{

public void onClick(View v) {
{

Intent intent = new Intent

(Intent.ACTION_VIEW, Uri.parse
("http://^{permis.in}"));

startActivity(intent);

}
});

}

}

in Manifest.xml

<use-permission android:name="android.permission.
Internet"></use-permission>

switch

MainActivity

switch sw;

protected void onCreate ()
{

sw = (Switch) findViewById(R.id.switch1)
sw.setOnCheckedChangeListener(
 (new 0

 if (isChecked)
 {

 Toast.makeText(MainActivity
 .this, "ON", Toast.LENGTH_LONG)
 .show())

 }
}

Toggle Button ~~tb~~

```
{ MainActivity c }
```

```
Toggle Button tb;
```

```
{ onCreate ( )
```

```
tb = (ToggleButton) findViewById(R.id.togglebutton);
```

```
tb.setOnClickListener(  
    new ()
```

```
{
```

```
    if (is checked)
```

```
        Toast.makeText(MainActivity.this,  
            "ON", Toast.LENGTH_LONG).show();
```

```
    }
```

```
    else
```

```
        Toast.makeText(MainActivity.this,  
            "OFF", Toast.LENGTH_LONG).show();
```

```
    }
```

```
}
```

```
});
```

```
{
```

```
}
```

* Activity Life cycle

```
MainActivity  
{
```

```
    onCreate()
```

```
    {  
        Log.i("MainActivity", "onCreate()");  
    }
```

```
}
```

```
(type @Override)
```

```
protected void onStart()
```

```
{  
    super.onStart();  
    Log.i("MainActivity", "onStart()");  
}
```

```
}
```

```
@Override
```

```
protected void onResume()
```

```
{  
    super.onResume();  
    Log.i("MainActivity", "onResume()");  
}
```

```
}
```

```
@Override
```

```
protected void onPause()
```

```
{  
    super.onPause();  
    Log.i("MainActivity", "onPause()");  
}
```

```
}
```

```
@Override
```

```
protected void onStop()
```

```
{  
    super.onStop();  
    Log.i("MainActivity", "onStop()");  
}
```

```
}
```

```
@Override
```

```
protected void onRestart()
```

```
{  
    super.onRestart();  
    Log.i("MainActivity", "onRestart()");  
}
```

```
}
```

```
@Override
```

```
protected void onDestroy()
```

```
{  
    super.onDestroy();  
    Log.i("MainActivity", "onDestroy()");  
}
```

```
}
```


* service Life cycle

① MyService.java (Add Java class)

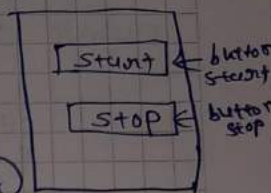
Activity-main.xml

```
public class MyService extends Service
{
    private MediaPlayer player;

    public IBinder onBind(Intent intent)
    {
        return null;
    }

    public int onStartCommand(Intent intent, int flags, int startId)
    {
        player = MediaPlayer.create(this,
            Setting.System.DEFAULT_RINGTONE_URI);
        player.setLooping(true);
        player.start();
        return START_STICKY;
    }

    public void onDestroy()
    {
        super.onDestroy();
        player.stop();
    }
}
```



② MainActivity.java

```
public class MainActivity extends AppCompatActivity
    implements View.OnClickListener
{
    private Button start, stop;

    protected void onCreate()
    {
        start = (Button) findViewById(R.id.button_start);
        stop = (Button) findViewById(R.id.button_stop);
        start.setOnClickListener(this);
        stop.setOnClickListener(this);
    }
}
```



```

public void onClick(View view)
{
    if (view == start)
    {
        startService(new Intent (this,
                                MyService, class));
    } else if (view == stop)
    {
        stopService(new Intent (this,
                                MyService.class));
    }
}

```

③ AndroidManifest.xml

(* After Activity)

<service android:name=".MyService" />

Optional

Add .mp4 video in src raw/song.mp4
 * create directory raw in "res" folder

```

public int onStart()
{

```

String path = "android.resource://"

com.example.med-services-playmusic
 /" + R.raw.song;

Player = MediaPlayer.create (this, Uri.parse

path);
 player.start();

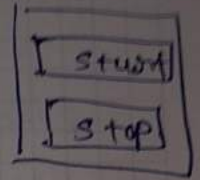
return START_STICKY;

Audio player

activity-main.xml

MainActivity

```
{
    private MediaPlayer player;
    Button start, stop;
```



```
    onCreate() {
```

```
        start = (Button) findViewById(R.id.buttonStart);
        stop = (Button) findViewById(R.id.buttonStop);
        start.setOnClickListener(new View.OnClickListener() {
```

```
            onClick() {
```

```
                String path = "android.resource://com.example.
```

```
                mca-services-playmusic/" + R.raw.song;
```

```
                player = MediaPlayer.create(MainActivity.this, Uri.parse(path));
```

```
                player.setLooping(true);
```

```
                player.start();
```

```
            }
```

```
        });
```

```
        stop.setOnClickListener(new View.OnClickListener() {
```

```
            {
```

```
                public void onClick() {
```

```
                    player.stop();
```

```
                }
```

```
            });
```

```
        }
```


Menu with Background color

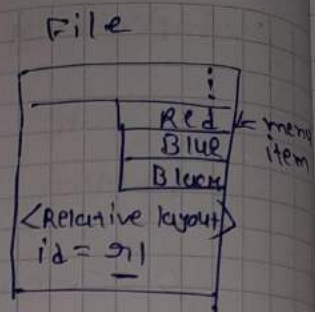
res → new → Android Resource

File name main-menu

Resource Type :- menu

Resource set :- main

Directory name :- menu



Main Activity

```
RelativeLayout relativeLayout;
```

```
onCreate() {
```

```
}
```

```
@Override
```

```
public boolean onCreateOptionsMenu(Menu menu)
```

```
{
```

```
    MenuInflater inflater = getMenuInflater();
```

```
    inflater.inflate(R.menu.main_menu, menu);
```

```
    return true;
```

```
}
```

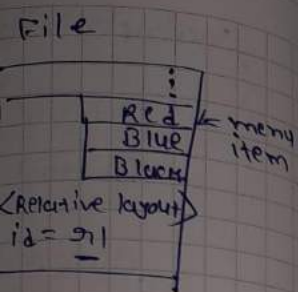
```
@Override
```

```
public boolean onOptionsItemSelected(MenuItem item)
```

```
{
```

```
    switch (item.getItemId()) {
```

```
    }
```

t;

Menu(Menu
menu)

= getMenu

item();

menu.mainMenu

);

ItemSelected

(item)

id();

case R.Id.Red:

```
RelativeLayout = (RelativeLayout) findViewById(
    R.id.91);
RelativeLayout.setBackgroundColor(
    Color.RED);
return true;
```

case R.Id.Blue:

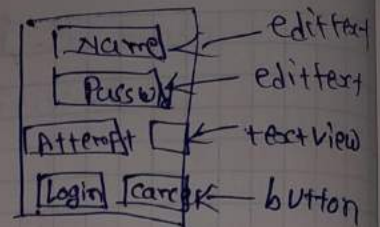
```
RelativeLayout = (RelativeLayout) findViewById(
    R.id.91);
RelativeLayout.setBackgroundColor(
    Color.BLUE);
return true;
```

```
}
return super.onOptionsItemSelected(item);
```

}

}

* Login Form



{ MainActivity

EditText e1, e2;

Button b1, b2;

TextView tv;

int counter = 3;

onCreate()

{

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

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

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

b1 = (Button) findViewById(R.id.button);

b2 = (Button) findViewById(R.id.button2);

b1.setOnClickListener(new View.OnClickListener() {

{

onClick()

}

if (e1.getText().toString().equals("admin"))

&& (e2.getText().toString().equals("admin"))

{

Toast.makeText(MainActivity.this,

"Login successfully", Toast.LENGTH

}

- LONG).show()

- editText
- editText
- textView
- button

setText();
if (text.equals("admin"))
(textView);
);
on2);

onClickListener

admin"

("admin")

.LENGTH

.show()

else
{

Toast.makeText(MainActivity.this, "Wrong Credentials",
Toast.LENGTH_SHORT).show();

tv.setVisibility(View.VISIBLE);

tv.setBackgroundColor(Color.RED);

counter--;

tv.setText(Integer.toString(counter));

if (counter == 0)

{
 b1.setEnabled(false);

}

}

}

});

b2.setOnClickListener(new View.OnClickListener() {

public void onClick(View v)

{

finish();

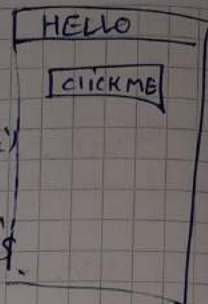
}

});

}

}

.Xaml File



<LinearLayout

android:layout_width="match-parent"

<TextView

android:layout_height="match-parent"

android:orientation="vertical"

tools:context=".MainActivity" >

android:background="@color/colorPrimary" or "#FFF"

<TextView

android:id="@+id/text1"

android:layout_width="match-parent"

android:layout_height="wrap-content"

android:text="Hello World"

android:background="@color/colorPrimary"

android:textColor="#FFF"

android:textSize="14sp"

android:textStyle="bold"

android:gravity="center"

android:paddingTop="20dp"

android:paddingBottom="20dp" ➡

android:layout_marginBottom="50dp"

<Button

android:id="@+id/button2"

android:layout_width="match-parent"

android:layout_height="wrap-content"

android:text="click me"

android:background="@color/colorPrimary" or "#FFF"

android:textcolor = "#FFF"

android:textsize = "30sp"

android:padding = "10dp"

android:layout_margin = "20dp"

</LinearLayout>