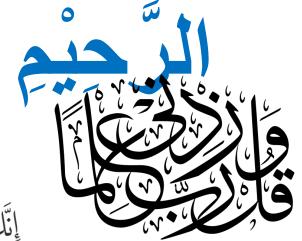
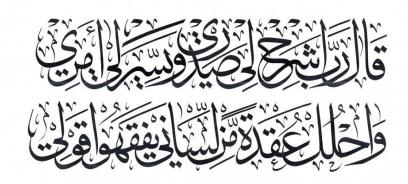
بسم الله الرّحمن

اللَّهِمَّ إنِّي أسألُكَ عِلمًا نافعًا ورزقًا طيِّبًا وعملًا متقبَّلًا

قَالُواْ سُبْحَانَكَ لَاعِلْمَ لَنَآ إِلَّا مَاعَلَّمْتَنَآ إِنَّكَ أَنتَ ٱلْعَلِيمُ الْحَكِيمُ







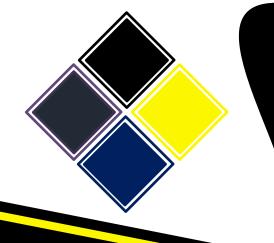
Dialog, Animations

Mobile Computing

LECTURE 13

Dialog, Animations

Instructor:



Maulana Haq Nawaz

تصحیح نیت

حضرت محمد صلى الله عليه الله عليه الله عليه الله عليه الما الأعمال بالنبات

ترج

اعمال کا دارومدار نیتوں پر

Little Efforts Daily Will Make You the Greatest

To systematically learn and get excellence in any concept / subject

- روز کا کام روز کریں
- اک مہینے کا کھانا ایک دن میں نہیں کھایا جا سکتا، ایسے ہی ایک مہینے کا کام ایک دن میں نہیں ہو سکتا

Little Efforts Daily Will Make You the

Importance of completing tasks on daily basis

>> Main Reason of Failure in Life

- یہ کام کل کریں گے
- جو کام کبھی بھی ہو سکتا ہے وہ کبھی نہیں ہوتا
- زندگی ایک دن ہے اور وہ ہے آج۔ زندگی میں کل نام کی کوئی چیز نہیں ہے ہے
 - جو دن آپ کی زندگی سے چلا گیا اب واپس نہیں آئے گا
 - آج کا کام آج ہی ہوسکتا ہے
- جو گز گیا وہ آنا نہیں ، آنے والے دن کا پتہ نہیں ، آج میدان جما ہے تو اینے تو اینے جوہر دکھاؤ

How to Achieve BIG Goals in Life

- **Balanced Life is Ideal Life ?**
- To achieve BIG Goals in Life
 - Make a Schedule of 24 Hours with a focus on Five main components of Human Life
 - Health
 - o Physical Health
 - o Mental Health
 - o Social Health
 - Spirituality
 - Work
 - Family
 - Friends

جو کام کریں دل سے کریں



(دی) کام کرنا۔



(ن) خوشی خوشی کام کرنا۔



الله کو ساتھ لے کرخوشی خوشی کام آيي باياك تعبد وإياك تستعين

> ترجمہ: یا الله ہم تیری ہی عبادت کرتے ہیں۔ اور تجھ ہی سے مدد مانگتے ہیں

Lecture Outline

- Revision
- **Dialog Overview**
- 3 Alert Dialog
- 4 Alert Dialog with Multiple Choices
- Customize Alerts
- 6 Stop Complaining! Stop Criticizing! Let's Start Contributing
- 7 Lecture Summary



Perfection and Neglection

Success is really attained by the believers who concentrate their attention in humbleness when offering Salāh (prayers)

So, Woe to those performers of Salāh, who are neglectful of their Salāh, {Expression of sorrow on some event}

Toast

 A toast provides simple feedback about an operation in a small popup. It only fills the amount of space required for the message and the current activity remains visible and interactive. Toasts automatically disappear after a timeout.

• For example, clicking Send on an email triggers a "Sending managed "forms, as shown in the following



Toasts are not clickable. If user response to a status message is required, consider instead using a Notification.

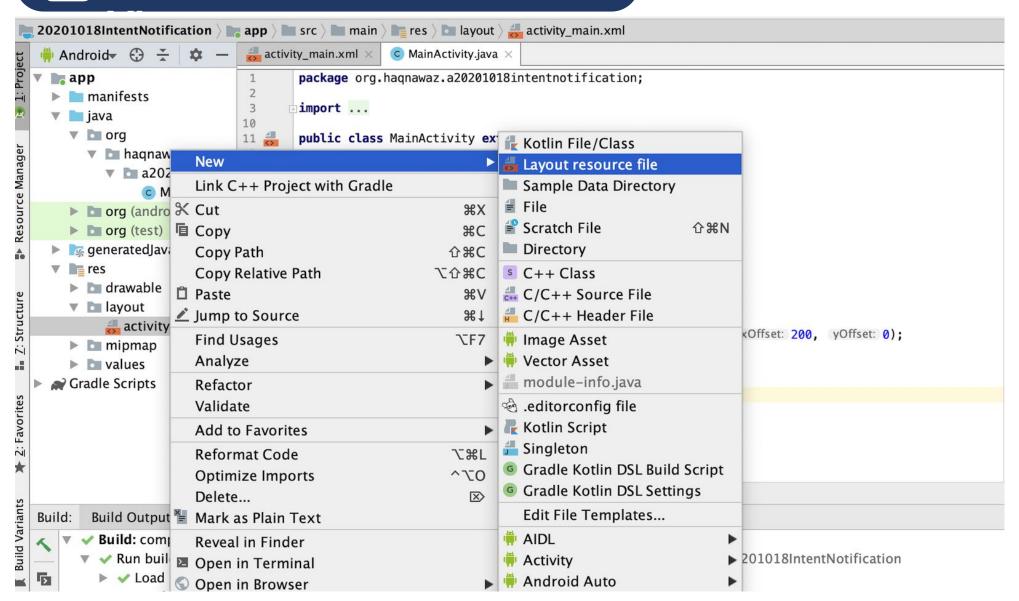
How to make Toast

- First, instantiate a Toast object with one of the makeText() methods. This method takes three parameters: the application Context, the text message, and the duration for the toast. It returns a properly initialized Toast object. You can display the toast notification with show(), as shown in the following example:
- Toast toast = Toast.makeText(this, "Toast Text", Toast.LENGTH_LONG);
 toast.show();

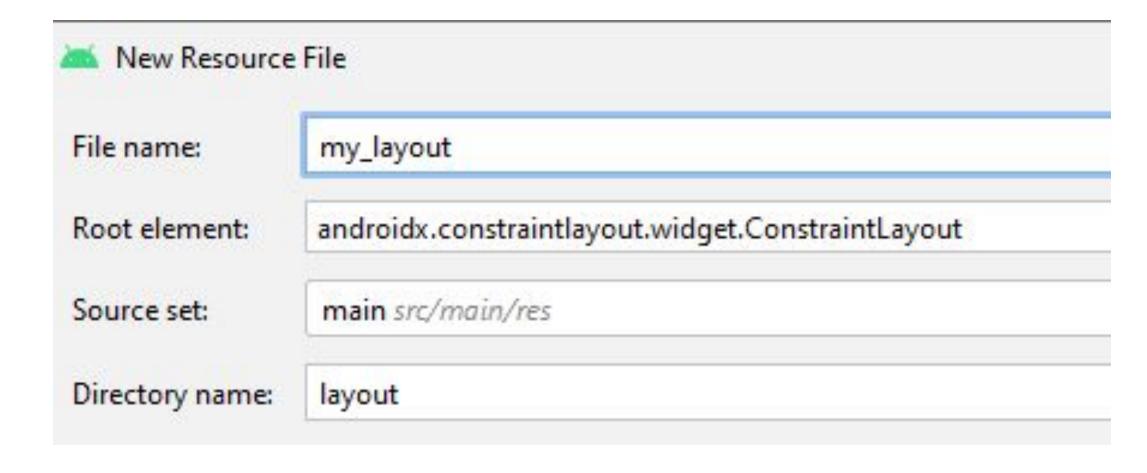
E Creating a Custom Toast

• If a simple text message isn't enough, you can create a customized layout for your toast notification. To create a custom layout, define a View layout, and pass the root View object to the setView(View) method.

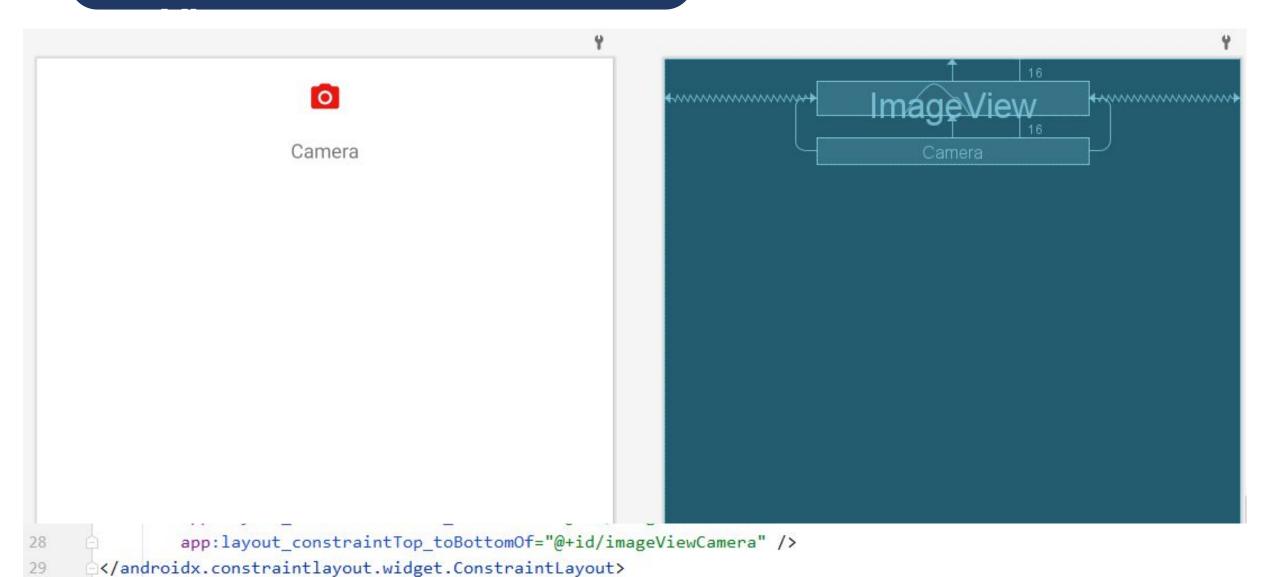
E Creating a Custom Toast



Creating a Custom Toast



E Creating a Custom Toast

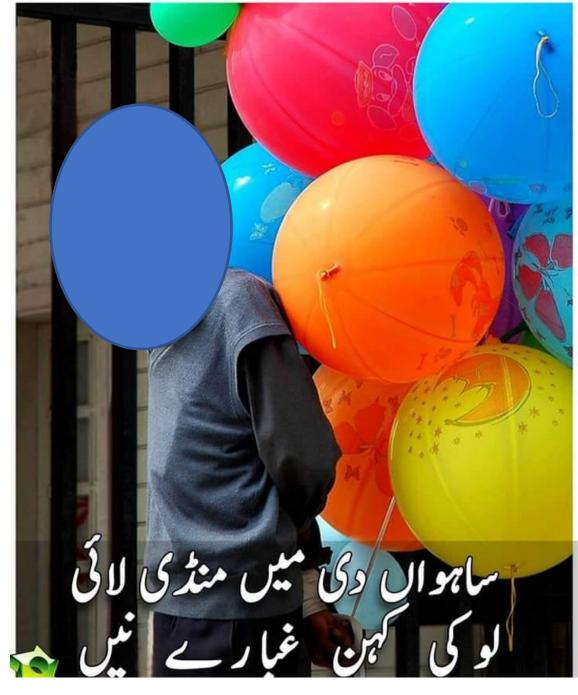


Code of Custom Toast

```
LayoutInflater layoutInflater = getLayoutInflater();
View myLayout=layoutInflater.inflate(R.layout.cust toast, null);
ImageView imageView=myLayout.findViewById(R.id.imageViewCustToast);
imageView.setImageResource(R.drawable.a5);
TextView myMessage= myLayout.findViewById(R.id.textViewCustToast);
myMessage.setText("My Custom Toast");
Toast myToast=new Toast(getApplicationContext());
myToast.setDuration(Toast.LENGTH LONG);
myToast.setView(myLayout);
myToast.show();
```

میسری سے نسیں حنسریدو گے___ مجھے کچھ اور جینا ہے___





LayoutInflater

Instantiates a layout XML file into its corresponding View objects. It is never used directly. Instead, use Activity.getLayoutInflater() or Context#getSystemService to retrieve a standard LayoutInflater instance that is already hooked up to the current context and correctly configured for the device you are running on.

Context

- Interface to global information about an application environment. This is an abstract class whose implementation is provided by the Android system. It allows access to application-specific resources and classes, as well as up-calls for application-level operations such as launching activities, broadcasting and receiving intents, etc.
- The context class is an interface to global information about an application environment.
- Ways of accessing other parts/features of the program.

E Context what can be done

- Loading resources.
 - Color, image, string, sound, asset.
- Launching a new activity.
 - Intent requires parameter of context
- Creating views.
- Obtaining system service.
 - Camera, GPS etc

E Context example of

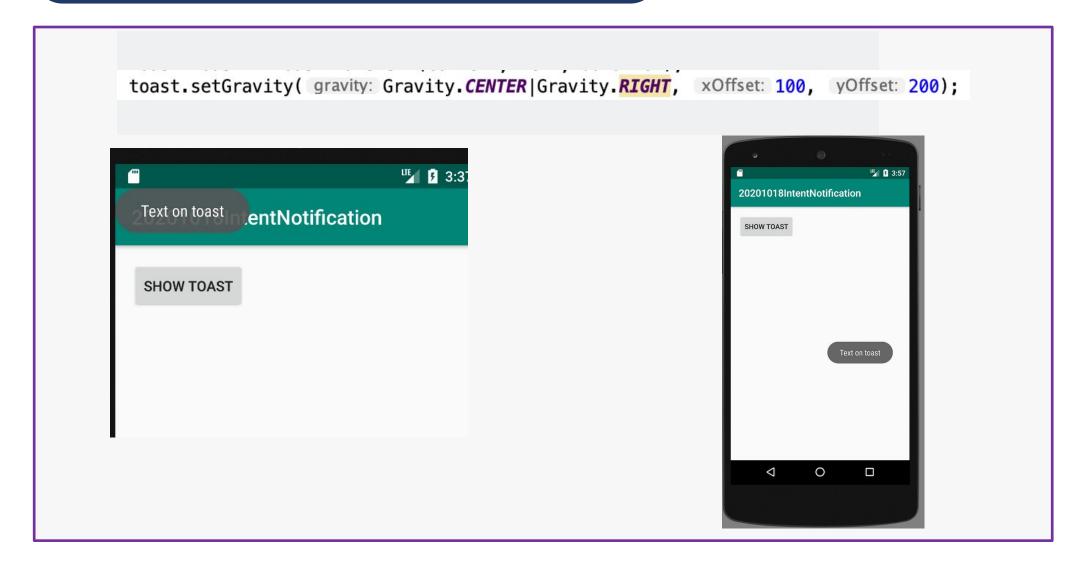
- getResources().getColor()
 - Allows your app to read values from the resource file colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
           <resources>
               <color name="colorPrimary"> #0d466b</color>
               <color name="colorPrimaryDark"> #0d466b</color>
            <color name="colorAccent"> #0d466b</color>
               <color name="appColor"> #0d466b</color>
               <color name="appLightColor"> #0d466b</color>
               <color name="appLightGrevText">#484848</color>
               -color name-"drawerDarkColor" #0d/66h-/color
103
                String[] webAppURL = getResources().getStringArray(R.array.webApps URL);
104
                String[] webAppTitle = getResources().getStringArray(R.array.webApps Title);
105
                String[] webApp_ArabicTitle = getResources().getStringArray(R.array.webApps_Arabic_Title);
106
                int[] webApp ArabicIcon = getResources().getIntArray(R.array.webApps Arabic Icon);
107
108
               <color name="translation text color">#40e3e4f9</color>
    17
               <color name="tafseer text color">#73e3e4f9</color>
    18
    19
               <color name="trans grey">#85A6AAAF</color>
    20
    21
               <color name="trans_dark_grey">#852d323b</color>
    22
           </resources>
    23
```

getApplicationContext()

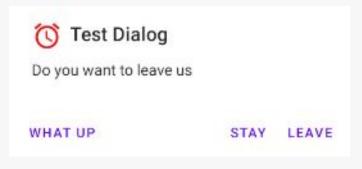
 Return the context of the single, global Application object of the current process. This generally should only be used if you need a Context whose lifecycle is separate from the current context, that is tied to the lifetime of the process rather than the current component.

E Toast Positioning

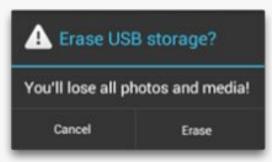


Dialog

 A dialog is a small window that prompts the user to make a decision or enter additional information. A dialog does not fill the screen and is normally used for modal events that require users to take an action before they can proceed.







Dialog

- The Dialog class is the base class for dialogs, but you should avoid instantiating Dialog directly. Instead, use one of the following subclasses:
 - <u>AlertDialog</u> A dialog that can show a title, up to three buttons, a list of selectable items, or a custom layout.
 - <u>DatePickerDialog</u> or <u>TimePickerDialog</u> A dialog with a pre-defined UI that allows the user to select a date or time.

DialogFragment

- These classes define the style and structure for your dialog, but you should use a DialogFragment as a container for your dialog. The DialogFragment class provides all the controls you need to create your dialog and manage its appearance, instead of calling methods on the Dialog object
- Using DialogFragment to manage the dialog ensures that it correctly handles lifecycle events such as when the user presses the Back button or rotates the screen. The DialogFragment class also allows you to reuse the dialog's UI as an embeddable component in a larger UI, just like a traditional Fragment (such as when you want the dialog UI to appear differently on large and small screens).



Do you want to leave us

WHAT UP

STAY LEAVE

Title

It is message

POSITIVE BUTTON

NEGATIVE BUTTON

```
// Create the object of AlertDialog Builder class
AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
// Set the message show
builder.setMessage("Message you want to show");
// Set Alert Title
builder.setTitle("Alert !");
// Set Cancelable false for when the user clicks on the outside the Dialog Box
then it will remain show
builder.setCancelable(false);
```

```
// Create the object of AlertDialog Builder class
AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
// Set the message show
builder.setMessage("Message you want to show");
// Set Alert Title
builder.setTitle("Alert !");
// Set Cancelable false for when the user clicks on the outside the Dialog Box
then it will remain show
builder.setCancelable(false);
```

```
// Set the positive button with yes name OnClickListener method is use of
DialogInterface interface.
builder.setPositiveButton(
    "Kill",
    new DialogInterface.OnClickListener() {
      @Override
      public void onClick(DialogInterface dialog, int asdf)
        // When the user click yes button then app will close
        finish();
    });
```

```
public void showDialog(View view) {
    AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
    builder.setMessage("It is message");
    builder.setTitle("Title");
    builder.setCancelable(false);
    builder.setPositiveButton(
        "Positive Button",
         new DialogInterface.OnClickListener() {
           @Override
           public void onClick(DialogInterface dialog, int asdf)
             finish();
         });
    builder.setNegativeButton(
         "Negative Button",
         new DialogInterface.OnClickListener() {
           @Override
           public void onClick(DialogInterface dialog, int which)
             dialog.cancel();
    AlertDialog alertDialog = builder.create();
    alertDialog.show();
```

```
AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
.setIcon(R.drawable.ic_baseline_alarm_24)
             .setTitle("Test Dialog")
             .setMessage("Do you want to leave us")
             .setPositiveButton("Leave", new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialog, int which) {
                  finish();
             .setNegativeButton("Stay", new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialog, int which) {
                  dialog.dismiss();
             .setNeutralButton("What up", new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialog, int which) {
                  Toast.makeText(getApplicationContext(), "Click Leave to close and Stay to cancel",
Toast.LENGTH_LONG).show();
             }).show();
```

SetColor

Red

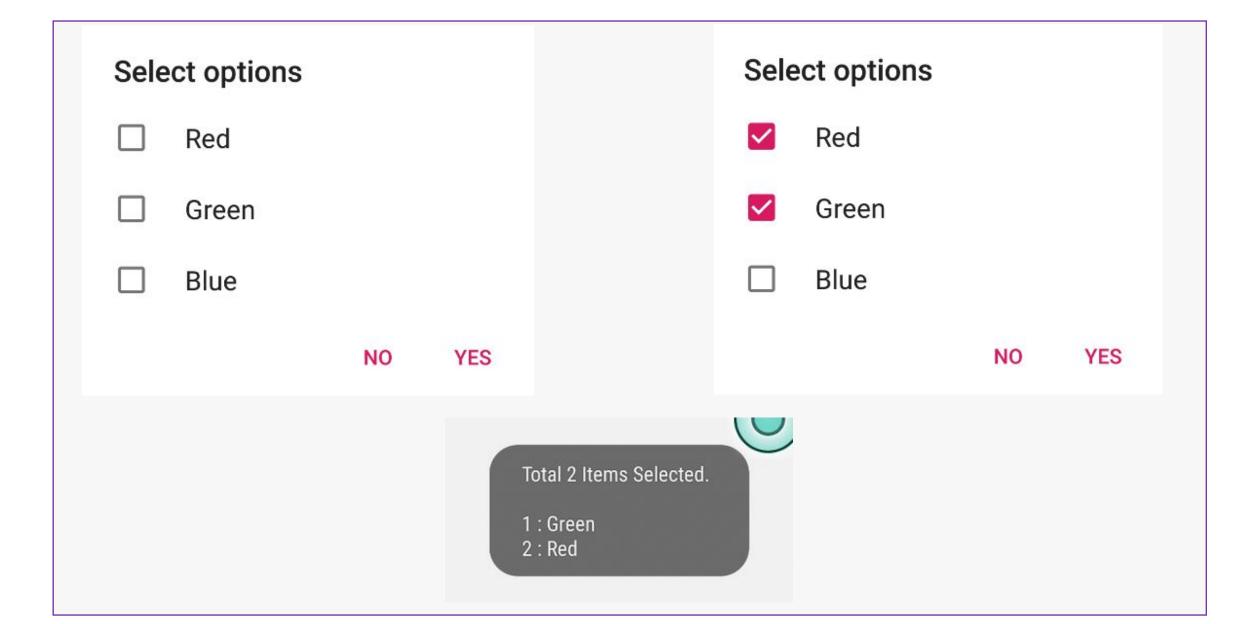
Green

Blue

AlertDialog with List

```
public class AlertDialogListActivity extends AppCompatActivity {
  String [] Colors = {"Red", "Green", "Blue"};
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_alert_dialog_list);
    AlertDialog.Builder builder = new AlertDialog.Builder(this);
    builder.setTitle("SetColor")
         .setItems(Colors, new DialogInterface.OnClickListener() {
           public void onClick(DialogInterface dialog, int which) {
             Toast.makeText(AlertDialogListActivity.this, Colors[which], Toast.LENGTH_SHORT).show();
        });
    AlertDialog dialog = builder.create();
    dialog.show();
```

AlertDialog with Multiple Choice



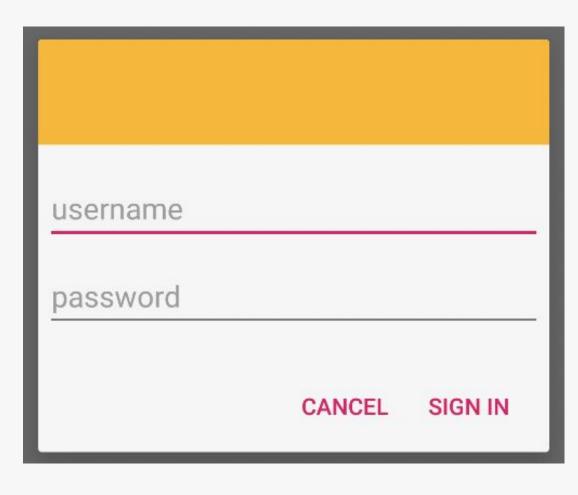
AlertDialog with List

```
String [] Colors = {"Red", "Green", "Blue"};
  ArrayList<Integer> selectedItems = new ArrayList(); // Where we track the selected items
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_multiple_choice_dialog);
    AlertDialog.Builder builder = new AlertDialog.Builder(this);
    builder.setTitle("Select options")
         .setMultiChoiceItems(Colors, null,
             new DialogInterface.OnMultiChoiceClickListener() {
               @Override
               public void onClick(DialogInterface dialog, int which, boolean isChecked) {
                 if (isChecked) {
                    selectedItems.add(which);
                 } else if (selectedItems.contains(which)) {
                    selectedItems.remove(Integer.valueOf(which));
         .setCancelable(false)
```

AlertDialog with List

```
.setPositiveButton("Yes", new DialogInterface.OnClickListener() {
           @Override
           public void onClick(DialogInterface dialog, int which) {
             String msg = "";
             for (int i = 0; i < selectedItems.size(); i++) {</pre>
               msg = msg + "\n" + (i + 1) + " : " + Colors[ selectedItems.get(i)];
             Toast.makeText(getApplicationContext(), "Total" + selectedItems.size() + " Items Selected.\n" + msg,
Toast.LENGTH SHORT).show();
         .setNegativeButton("No", new DialogInterface.OnClickListener() {
           @Override
           public void onClick(DialogInterface dialog, int which) {
             Toast.makeText(MultipleChoiceDialogActivity.this,"No Option Selected",Toast.LENGTH SHORT).show();
        });
    AlertDialog dialog = builder.create();
    dialog.show();
```

By AlertDialog with Customize Layout



AlertDialog with List

```
@Override
protected void onCreate(Bundle savedInstanceState) {
  SUPEr.onCreate(savedInstanceState);
  setContentView(R.layout.activity_sign_in_dialog);
  AlertDialog.Builder builder = new AlertDialog.Builder(this);
  LayoutInflater inflater = this.getLayoutInflater();
  builder.setView(inflater.inflate(R.layout.sign_in, null))
      // Add action buttons
         . setPositiveButton (\textbf{"Sign In"}, \textbf{new} \ \mathsf{DialogInterface}. On Click Listener () \ \{ \\
        @Override
            public void onClick(DialogInterface dialog, int id) {
          // sign in the user ...
      })
      .setNegativeButton("Cancel", new DialogInterface.OnClickListener() {
        public void onClick(DialogInterface dialog, int id) {
  AlertDialog dialog = builder.create();
```