

1) Build an android app to print "Hello World".

→ <androidx.constraintlayout.widget.ConstraintLayout>  
    xmlns:android="http://schemas.android.com/apk/res-auto"  
    xmlns:app="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>

Output:-

Hello World.

2) Build an android app to make a calculator.

→ <?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:tools="http://schemas.android.com/tools"  
    android:id="@+id/activity\_main"  
    android:layout\_width="match\_parent"  
    android:layout\_height="match\_parent".

android: paddingBottom = "@dimen/activity\_vertical\_margin"  
 android: paddingLeft = "@dimen/activity\_horizontal\_margin"  
 android: paddingRight = "@dimen/activity\_horizontal\_margin"  
 android: paddingTop = "@dimen/activity\_vertical\_margin"  
 tools: context = "abhi. android. com. Calculator. MainActivity"  
 android: orientation = "vertical"  
 android: gravity = "top"  
 android: textAlign = "center"  
 android: background = "@android:color/ holo\_blue\_bright."  
 android: weightSum = "1" />

### < TextView

android: text = "@string/enter\_two\_numbers"  
 android: layout\_width = "match-parents"  
 android: id = "@+id/textview"  
 android: layout\_height = "30dp"  
 android: textColorLink = "? android: attr/editTextColor"  
 tools: textStyle = "bold|italic"  
 android: textStyle = "bold|italic"  
 android: fontFamily = "serif"  
 android: visibility = "visible"  
 android: textSize = "24sp"  
 android: layout\_weight = "0.07" />

### < EditText

android: layout\_width = "match-parent"  
 android: layout\_height = "wrap\_content"  
 android: inputType = "number"  
 android: ems = "10"  
 android: id = "@+id/editop1"  
 android: textSize = "18sp"

android: gravity = "center\_horizontal"  
 android: layout\_marginBottom = "5dp"  
 android: visibility = "visible" />

<Edit Text .

    android: layout\_width = "match\_parent"  
 android: layout\_height = "wrap\_content"  
 android: inputType = "number"  
 android:ems = "10"  
 android:id  
 android:textSize = "18sp"  
 android:gravity = "center\_horizontal"  
 android:elevation = "1dp" />

<| Linear Layout).

- 3) Build an android app to ~~make~~ design a form to take input from the user.

→ <RadioGroup

    android:id = "@+id/radioGroup"  
 android:layout\_width = "205dp"  
 android:layout\_height = "32dp"  
 android:layout\_marginTop = "172dp"  
 android:orientation = "horizontal"  
 app:layout\_constraintEnd\_toEndOf = "parent"  
 app:layout\_constraintHorizontal\_bias = "0.834"  
 app:layout\_constraintStart\_toStartOf = "parent"  
 app:layout\_constraintTop\_toTopOf = "parent".

<RadioButton

    android:id  
 android:layout\_width  
 android:layout\_height  
 android:layout\_weight = "1"

app:layout\_constraintEnd\_toEndOf = "parent"

app:layout\_constraintStart\_toStartOf = "parent"

app:layout\_constraintTop\_toTopOf = "parent" />

android:onClick = "radioButtonHandler" />

### <RadioButton

android:id = "@+id/female"

android:layout\_width = "45dp"

android:layout\_height = "33dp"

android:text = "F"

app:layout\_constraintEnd\_toEndOf = "parent"

app:layout\_constraintHorizontal\_bias = "0.655"

app:layout\_constraintTop\_toTopOf = "parent" .

android:onClick = "radioButtonHandler" />

### <RadioButton

android:id = "@+id/other"

android:layout\_width = "96dp"

android:layout\_height = "33dp"

android:text = "Others"

app:layout\_constraintEnd\_toEndOf = "parent"

app:layout\_constraintHorizontal\_bias = "0.949"

app:layout\_constraintStart\_toStartOf = "parent"

app:layout\_constraintTop\_toTopOf = "parent"

android:onClick = "radioButtonHandler" />

### </RadioGroup>

4) Work on Android - user interface.

→ <?xml version = "1.0" encoding = "utf-8"?>

<LinearLayout

xmlns:android = "http://schemas.android.com/apk/res/

xmlns:tools = "http://schemas.android.com/tools" android="

android:orientation = "vertical"

android:layout\_width = "match\_parent"

android:layout\_height = "match\_parent"

tools:context = ".MainActivity" >

<EditText

android:id = "@+id/editText"

android:layout\_width = "match\_parent"

android:layout\_height = "wrap\_content"

android:layout\_margin = "16dp"

android:hint = "Input"

android:inputType = "text" />

<Button

android:id = "@+id/showInput"

android:layout\_width = "wrap\_content"

android:layout\_height = "wrap\_content"

android:layout\_gravity = "center\_horizontal"

android:text = "Show"

android:backgroundTint = "@color/colorPrimary"

android:textColor = "@android:color/white" />

</LinearLayout>

5) Drag and Drop using DragLinearLayout in Android.

→ <?xml version = "1.0" encoding = "utf-8"?>  
<com.jmedeisis.draglinelayout.DragLinearLayout  
xmlns:android:id = "@+id/Container"  
android:layout\_width = "match\_parent"  
android:layout\_height = "match\_parent"  
android:orientation = "vertical"  
tools:context = ".MainActivity">

<Imageview

    android:id = "@+id/idIVLogo"  
    android:layout\_width = "match\_parent"  
    android:layout\_height = "150dp"  
    android:contentDescription = "@string/image\_desc"  
    android:src = "@drawable/gfgimage"

<Textview

    android:layout\_width = "match\_parent"  
    android:layout\_height = "wrap\_content"  
    android:background = "@color/purple-500"  
    android:padding = "20dp"  
    android:text = "@string/geeks-for-geeks"  
    android:textAlignment = "center"  
    android:textColor = "@color/white"  
    android:textSize = "20sp"  
    android:textStyle = "bold"/>

## &lt; TextView

android:layout\_width = "match\_parent"  
 android:layout\_height = "wrap\_content"  
 android:background = "@color/purple\_500"  
 android:padding = "10dp"  
 android:text = "@string/dsa-course"  
 android:textAlignment = "center"  
 android:textColor = "@color/white"  
 android:textSize = "20sp"  
 android:textStyle = "bold"

</com.jmeisis.dragLinearLayout.DragLinearLayout>

6) creating splash screen using handler in Android.

→ <?xml version = "1.0" encoding = "utf-8"?>

<android.support.constraint.ConstraintLayout xmlns:android =  
     " https://schemas.android.com/apk/res/android"  
 xmlns:app = " https://schemas.android.com/apk/res/~~com~~"  
 xmlns:tools = " https://schemas.android.com/tools" auto="true"  
 android:layout\_width = "match\_parent"  
 android:layout\_height = "match\_parent"  
 android:background = "@android:color/black"  
 tools:context = "com.journaldev.SplashScreen.SplashActivity">

## &lt; Image view

android:id = "@+id/imageview"  
 android:layout\_width = "72dp"  
 android:layout\_height = "72dp"  
 android:src = "@mipmap/ic-launcher"  
 app:layout\_constraintBottom\_toBottomOf = "parent"

app: layout\_constraintLeft\_toLeftOf = "parent"

app: layout\_constraintRight\_toRightOf = "parent"

app: layout\_constraintTop\_toTopOf = "parent" />

< progress Bar

android: layout\_width = "wrap\_content"

android: layout\_height = "wrap\_content"

android: indeterminate = "true"

app: layout\_constraintLeft\_toLeftOf = "parent"

app: layout\_constraintRight\_toRightOf = "parent"

android: layout\_marginTop = "8dp"

app: layout\_constraintTop\_toBottomOf = "@+id/imageview" />

</android.support.constraint.ConstraintLayout>

## Groupwise Android project.

- (i) open a web browser and navigate to Gmail.com. Type your Google account login credentials in the spaces provided and click the "Sign In" button to sign into your account.
- (ii) click the "Settings" icon on your gmail home page, followed by the "Forwarding and pop/IMAP" tab.
- (iii) Select the "Enable IMAP" option beneath the "IMAP Access" heading and click the "Save Changes" button to save the changes.
- (iv) Double-click your Groupwise client to open the program. Type your login credentials in the spaces provided and log in to your Groupwise account.

- (V) click the arrow to the right of your username and Select the "Caching" option from the drop-down menu that appears
- (vi) click the "Accounts" option, followed by the "Account options" item. click the "Add" button, type your area code in the space provided and click the "OK" button.
- (vii) Type your Gmail address in the space labeled, "Account Name". Select "IMAP4" from the "Account Type" drop-down menu. click the "Next" button to continue.
- (viii) Type "imap.gmail.com" in the space labeled "Incoming Mail Server" and type your Groupwise email address in the space labeled "Login Name".
- (ix) Type "Smtp.gmail.com" in the space labeled "Outgoing Mail Server" and press the "Tab" key. Type your name in the space labeled "From Name" and click the "Next" button to continue.
- (x) click the "Finish" button to finish the setup process.  
Now, you can check your Groupwise email through the gmail account on your Android device.