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Subject/Course:	Advanced Mobile Programming		
Topic	Programs related to different Layouts		

Linear Layout

4.a) To demonstrate Linear Layout.

[9:00 AM] Sanjeev Gupta
Login

main.kt

```
package com.example.prac4san
```

```
import android.support.v7.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
```

```
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
```

```
        val submitButton = findViewById<Button>(R.id.btnSubmit)
        val resetButton = findViewById<Button>(R.id.btnReset)
        val name = findViewById<EditText>(R.id.editName)
        val password = findViewById<EditText>(R.id.editPassword)
```

```
        submitButton.setOnClickListener() {
            Toast.makeText(this, " Submitted !!", Toast.LENGTH_LONG).show()
        }
        resetButton.setOnClickListener() {
            name.editableText.clear()
            password.editableText.clear()
        }
    }
}
```

XML

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="409dp"
        android:layout_height="354dp"
        android:orientation="vertical"
        tools:layout_editor_absoluteX="1dp"
        tools:layout_editor_absoluteY="1dp">

        <TextView
            android:id="@+id/textView"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Login Page" />

        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/editName"
            android:hint="Enter your Name"
            android:inputType="text" />

        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/editPassword"
            android:hint="Enter your Password"
            android:inputType="text" />

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="horizontal">

            <Button
                android:id="@+id/btnSubmit"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="Submit" />

            <Button
                android:id="@+id/btnReset"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="Reset" />

        </LinearLayout>
    </LinearLayout>
```

</android.support.constraint.ConstraintLayout>



[11:12 PM] Sanjeev Gupta

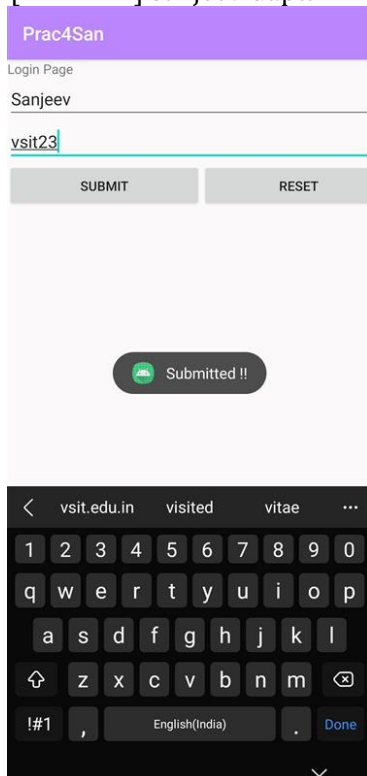


Table Layout

4.b) To demonstrate Table Layout.

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TableLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="@color/black"
        tools:layout_editor_absoluteX="1dp"
        tools:layout_editor_absoluteY="1dp">

        <TableRow
            android:layout_width="match_parent"
            android:layout_height="match_parent">

            <Button
                android:id="@+id/Button1"
                android:layout_height="wrap_content"
                android:layout_width="wrap_content"
                android:text="Button 1"
                android:background="@color/white"
                android:textColor="@color/purple_200"/>

            <Button
                android:id="@+id/Button2"
                android:layout_height="wrap_content"
                android:layout_width="wrap_content"
                android:text="Button 2"
                android:background="@color/purple_200"
                android:textColor="@color/white"/>
        </TableRow>

        <TableRow
            android:layout_width="match_parent"
            android:layout_height="match_parent">

            <Button
                android:id="@+id/Button3"
                android:layout_height="wrap_content"
                android:layout_width="wrap_content"
                android:text="Button 3"
                android:background="@color/teal_700"
                android:textColor="@color/purple_200"/>

            <Button
                android:id="@+id/Button4"
                android:layout_height="wrap_content"
                android:layout_width="wrap_content"
                android:text="Button 4"
                android:background="@color/white"
                android:textColor="@color/black"/>
        </TableRow>

    </TableLayout>
```

```
</TableLayout>
</android.support.constraint.ConstraintLayout>
```

MainActivity.kt

```
package com.example.practical_4b

import android.support.v7.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
import android.widget.Toast

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val Button1 = findViewById<Button>(R.id.Button1)
        val Button2 = findViewById<Button>(R.id.Button2)
        val Button3 = findViewById<Button>(R.id.Button3)
        val Button4 = findViewById<Button>(R.id.Button4)

        Button1.setOnClickListener {
            Toast.makeText(this, "Button 1 Clicked", Toast.LENGTH_LONG).show()
        }
        Button2.setOnClickListener {
            Toast.makeText(this, "Button 2 Clicked", Toast.LENGTH_LONG).show()
        }
        Button3.setOnClickListener {
            Toast.makeText(this, "Button 3 Clicked", Toast.LENGTH_LONG).show()
        }
        Button4.setOnClickListener {
            Toast.makeText(this, "Button 4 Clicked", Toast.LENGTH_LONG).show()
        }
    }
}
```

Output

