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| A picture containing drawing, stop, room  Description automatically generated | Advanced Mobile Programming  Practical #4 | | |
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| **Name** | **Aniket Gupta** | **Roll Number** | **21302B0053** |
| **Subject/Course:** | **Advanced Mobile Programming** | | |
| **Topic** | **Programs related to different Layouts** | | |
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| **Linear Layout** | | | |
| 4.a) To demonstrate Linear 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: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">   <LinearLayout  android:id="@+id/linearLayout"  android:layout\_width="410dp"  android:layout\_height="634dp"  android:orientation="vertical"  app:layout\_constraintEnd\_toEndOf="parent"  app:layout\_constraintStart\_toStartOf="parent"  tools:layout\_editor\_absoluteY="54dp"  tools:ignore="MissingConstraints">   <TextView  android:id="@+id/textView"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="TextView one"  android:textSize="20sp" />   <EditText  android:id="@+id/editText"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:hint="Enter YOur Name: "  android:inputType="text" />   <LinearLayout  android:id="@+id/linearLayout2"  android:layout\_width="match\_parent"  android:layout\_height="421dp"  android:orientation="horizontal">   <Button  android:id="@+id/button1"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="1"  android:text="Submit" />   <Button  android:id="@+id/button2"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="1"  android:text="Reset" />  </LinearLayout>  </LinearLayout> </android.support.constraint.ConstraintLayout>  **MainActivity.kt**  package com.example.amp\_p4\_1  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(R.id.*button1*) as Button  val ResetButton= findViewById<Button>(R.id.*button2*)  val nameEdit= findViewById(R.id.*editText*) as EditText   submitButton.setOnClickListener**{** Toast.makeText(*applicationContext*,nameEdit.*text*.toString(),Toast.*LENGTH\_SHORT*).show()  nameEdit.*text*.clear()  **}**  ResetButton.setOnClickListener()**{** nameEdit.*text*.clear();  **}** } }  **OUTPUT:** | | | |
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| **Table Layout** | | | |
| 4.b) To demonstrate Table Layout. | | | |
| **MainActivity.kt**    package com.example.amp\_p41 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.button3)   Button1.setOnClickListener {  Toast.makeText(this, "button 1 Click", Toast.LENGTH\_LONG).show()  }  Button2.setOnClickListener {  Toast.makeText(this, "button 2 Click", Toast.LENGTH\_LONG).show()  }  Button3.setOnClickListener {  Toast.makeText(this, "button 3 Click", Toast.LENGTH\_LONG).show()  }  Button4.setOnClickListener {  Toast.makeText(this, "button 4 Click", Toast.LENGTH\_LONG).show()  }  } }  **activity\_main.xml**    <?xml version="1.0" encoding="utf-8"?> <android.support.constraint.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">   <TableLayout  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:background="@color/purple\_200"  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\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:background="@color/teal\_200"  android:text="Button 1"  android:textColor="@color/white"/>   <Button  android:id="@+id/button2"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Button 2"  android:background="@color/black"  android:textColor="@color/white"/>  </TableRow>   <TableRow  android:layout\_width="match\_parent"  android:layout\_height="match\_parent" >   <Button  android:id="@+id/button3"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Button 3"  android:background="@color/black"  android:textColor="@color/white"/>   <Button  android:id="@+id/button4"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Button 4"  android:background="@color/teal\_200"  android:textColor="@color/white"/>  </TableRow>  </TableLayout> </android.support.constraint.ConstraintLayout>  **OUTPUT:** | | | |