MOBILE APPLICATION DEVELOPMENT LAB RECORD STRUCTURE



- 1. Develop a program to implement frame layout, table layout and relative layout.
- 2. Develop a program to implement Text View and Edit Text.
- 3. Develop a program to implement Auto Complete Text View.
- 4. Develop a program to implement Button, Image Button and Toggle Button.
- 5. Develop a program to implement Progress Bar.
- 6. Develop a program to implement Custom Toast Alert.

ExpNo: 1

Develop a program to implement frame layout, table layout and relative layout.

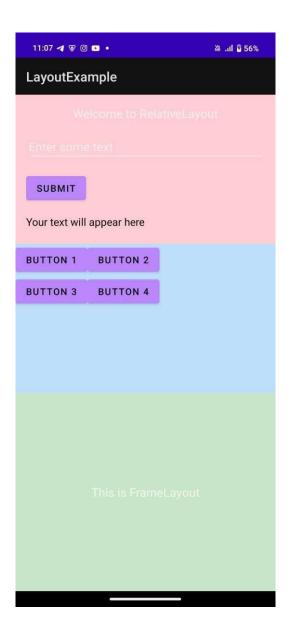
AIM: To develop a program to implement frame layout, table layout and relative layout.

PROGRAM:

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/ape/res/android"</p>
  android:layout_width="match_parent"
  android:layout_height="match_parent">
  <!-- RelativeLayout Section -->
  <RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:background="#FFCDD2"
    android:padding="16dp">
    <TextView
      android:id="@+id/textView"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_centerHorizontal="true"
      android:text="Welcome to
      RelativeLayout" android:textSize="18sp"
      />
    <EditText
      android:id="@+id/editTextInput"
      android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
    android:layout_below="@id/textView"
    android:layout_marginTop="16dp"
    android:hint="Enter some text"
    android:inputType="text" />
  <Button
    android:id="@+id/buttonSubmit"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/editTextInput"
    android:layout_marginTop="16dp"
    android:text="Submit" />
  <TextView
    android:id="@+id/textViewOutput"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@id/buttonSubmit"
    android:layout_marginTop="16dp"
    android:text="Your text will appear here"
    android:textSize="16sp"
    android:textColor="#000" />
</RelativeLayout>
<!-- TableLayout Section -->
<TableLayout
  android:layout_width="match_parent"
  android:layout_height="300dp"
  android:layout_gravity="center"
  android:background="#BBDEFB">
  <TableRow>
    <Button
      android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
         android:text="Button 1" />
       <Button
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:text="Button 2" />
    </TableRow>
    <TableRow>
       <Button
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:text="Button 3" />
       <Button
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:text="Button 4" />
    </TableRow>
  </TableLayout>
  <!-- FrameLayout Section -->
  < Frame Layout
    android:layout width="match parent"
    android:layout_height="300dp"
    android:layout_gravity="bottom"
    android:background="#C8E6C9">
    <TextView
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:text="This is FrameLayout"
       android:textSize="18sp"
       android:layout_gravity="center" />
  </FrameLayout>
</FrameLayout>
```



RESULT:

Thus, the program to implement frame layout, table layout and relative layout was executed successfully.

ExpNo: 2

Develop a program to implement Text View and Edit Text.

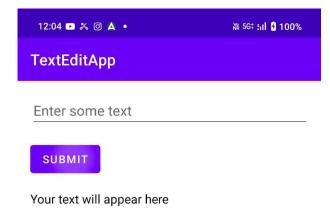
AIM: To develop a program to implement Text View and Edit Text.

PROGRAM:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:padding="16dp">
  <!-- EditText for user input -->
  <EditText
    android:id="@+id/editTextInput"
    android:layout_width="match_parent"
    android:layout_height="wrap_content
    " android:hint="Enter some text"
    android:inputType="text" />
  <!-- Button to display the text -->
  <Button
    android:id="@+id/buttonSubmit"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content
    " android:layout_marginTop="16dp"
    android:text="Submit" />
  <!-- TextView to display the entered text -->
  <TextView
```

```
android:id="@+id/textViewOutput"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:text="Your text will appear here"
android:textSize="16sp"
android:textColor="#000"/>
```

</LinearLayout>



RESULT:

Thus, the program to implement Text View and Edit Text was executed successfully.

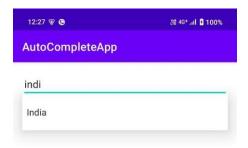
ExpNo: 3 Develop a program to implement Auto Complete Text View.

AIM: To develop a program to implement Auto Complete Text View.

PROGRAM:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_height="match_parent">

<AutoCompleteTextView
    android:id="@+id/autoCompleteTextView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Type a country"
    android:layout_margin="16dp"
    android:completionThreshold="1" />
</RelativeLayout>
```





RESULT:

Thus, the program to implement Auto Complete Text View was executed successfully.

ExpNo: 4

Develop a program to implement Button, Image Button and Toggle Button.

AIM: to Develop a program to implement Button, Image Button and Toggle Button.

PROGRAM:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:gravity="center"
  android:padding="16dp">
  <!-- Normal Button -->
  <Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Click Me"
    android:layout_marginBottom="16dp" />
  <!-- Image Button -->
  <ImageButton
    android:id="@+id/imageButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content
    android:src="@drawable/ic_launcher_foreground"
    android:contentDescription="Image Button"
    android:background="?attr/selectableItemBackground"
    android:layout_marginBottom="16dp" />
```

```
<!-- Toggle Button -->
<ToggleButton
android:id="@+id/toggleButton"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textOn="ON"
android:textOff="OFF"/>
</LinearLayout>
```



RESULT:

Thus, the program to implement Button, Image Button and Toggle Button was executed successfully.

ExpNo: 5 Develop a program to implement Progress Bar.

AIM: To develop a program to implement Progress Bar.

PROGRAM:

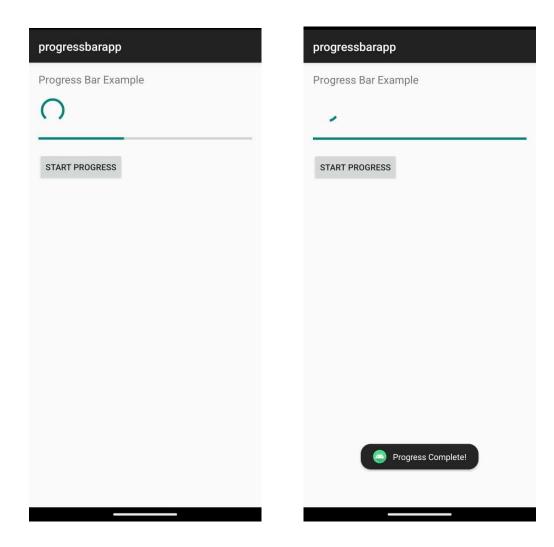
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:padding="16dp">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Progress Bar Example"
    android:textSize="18sp"
    android:layout_marginBottom="16dp" />
  <!-- Indeterminate Progress Bar -->
  <ProgressBar
    android:id="@+id/indeterminateProgressBar"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:indeterminate="true"
    android:layout_marginBottom="16dp" />
  <!-- Determinate Progress Bar -->
  <ProgressBar
    android:id="@+id/determinateProgressBar"
    style="?android:attr/progressBarStyleHorizontal"
    android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"

android:layout_marginBottom="16dp"
android:progress="0"
android:max="100"/>

<Button
android:id="@+id/startButton"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Start Progress"/>

</LinearLayout>
```



Result:

Thus, the program to implement Progress Bar was executed successfully