# Experiment - 9

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Subject Name: Mobile Application Development Lab Subject Code: 20CSP-356

**1. AIM:** Implement building blocks for Android Application using different layouts (such as linear, relative and absolute).

## 2. CODE:

#### MainActivity.java

```
package com.example.myapplication9;
import
android.content.Intent; import
android.os.Bundle; import
android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
   @Override
   protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity main);
        Button linearLayoutButton = findViewById(R.id.linear layout button);
Button relativeLayoutButton = findViewById(R.id.relative layout button);
Button absoluteLayoutButton = findViewById(R.id.absolute layout button);
         linearLayoutButton.setOnClickListener(v -> {
Intent intent = new Intent(MainActivity.this,
LinearLayoutActivity.class);
startActivity(intent);
        });
        relativeLayoutButton.setOnClickListener(v -> {
            Intent intent = new Intent(MainActivity.this,
RelativeLayoutActivity.class);
```

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```
startActivity(intent);
        });
absoluteLayoutButton.setOnClickListener(v -> {
Intent intent = new Intent(MainActivity.this,
AbsoluteLayoutActivity.class);
startActivity(intent);
        });
activity main.xml
<LinearLayout
   xmlns:android="http://schemas.android.com/apk/res/android"
android:orientation="vertical"
                                android:layout width="match parent"
android:layout height="match parent">
        android:text="@string/linear layout"
android:layout width="wrap content"
android: layout height="wrap content"
android:id="@+id/linear layout button"
android:textSize="18sp"
android:layout marginTop="40dp"
        android:layout gravity="center horizontal"/>
< Button
        android:text="@string/relative layout"
android:layout width="wrap content"
android:layout height="wrap content"
android:id="@+id/relative layout button"
android:textSize="18sp"
        android:layout gravity="center horizontal"/>
< Button
       android:text="@string/absolute layout"
android: layout width="wrap content"
android:layout height="wrap content"
android:id="@+id/absolute layout button"
android:textSize="18sp"
       android:layout gravity="center horizontal"/>
   <TextView
       android:id="@+id/textView"
android: layout width="match parent"
android:layout height="wrap content"
android:textSize="16sp"
android:layout marginTop="40dp"
android:layout marginStart="10dp"
```

android:layout marginStart="10dp"

android:text="@string/uid 20bcs3056" />

</LinearLayout>



## LinearLayoutActivity.java

```
package com.example.myapplication9;
import
android.os.Bundle;

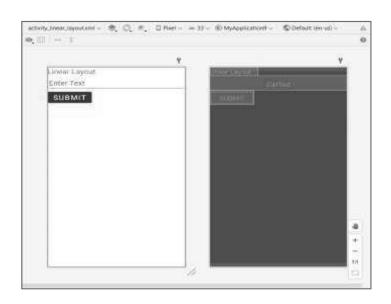
import androidx.appcompat.app.AppCompatActivity;

public class LinearLayoutActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_linear_layout);
    }
}
```

#### activity linear layout.xml

</LinearLayout>

```
<LinearLayout
   xmlns:android="http://schemas.android.com/apk/res/android"
android:orientation="vertical"
                                   android:layout width="match parent"
android:layout height="match parent">
   <TextView
       android:text="@string/element 11"
android:textSize="24sp"
android:layout width="wrap content"
android:layout height="wrap content"/>
   <EditText
       android:hint="@string/element_22"
android:textSize="24sp"
android: layout width="match parent"
android:layout height="wrap content"/>
<Button
        android:layout width="wrap content"
android:layout height="wrap content"
android:textSize="24sp"
        android:text="@string/element 33" />
```



### RelativeLayoutActivity.java

android:layout height="wrap content"

```
package com.example.myapplication9;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
public class RelativeLayoutActivity extends AppCompatActivity {
   @Override
   protected void onCreate(Bundle savedInstanceState) ;
super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_relative_layout);
    } }
activity relative layout.xml
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
android:layout width="match parent" android:layout height="match parent">
    <TextView
        android:text="@string/element 1"
android:textSize="24sp"
android:layout width="wrap content"
android:layout height="wrap content"
android:id="@+id/text view 1"
android:layout alignParentTop="true"
android:layout alignParentStart="true"
android:layout marginStart="16dp"
android:layout marginTop="16dp"/>
    <EditText
        android:hint="@string/element 2"
android:textSize="24sp"
android:layout width="match parent"
android:layout_height="wrap content"
android:id="@+id/edit text 1"
android:layout below="@id/text view 1"
android:layout alignStart="@id/text view 1"
android:layout marginTop="16dp"/>
       android:text="@string/element 3"
android:textSize="24sp"
android: layout width="wrap content"
```

```
android:id="@+id/button_1"
android:layout_below="@id/edit_text_1"
android:layout_alignStart="@id/edit_text_1"
android:layout_marginTop="16dp"/>
```

</RelativeLayout>



## AbsoluteLayoutActivity.java

```
package com.example.myapplication9;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
public class AbsoluteLayoutActivity extends AppCompatActivity
{
    @Override
    protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_absolute_layout);
    }
}
```

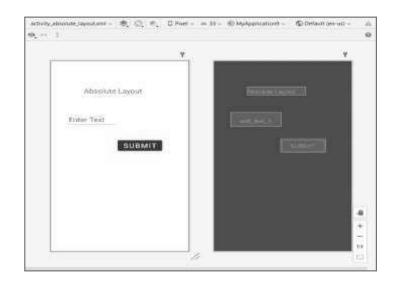
activity absolute layout.xml



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```
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
android:layout width="match parent"
                                        android: layout height="match parent">
<TextView
       android:text="@string/element 111"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:id="@+id/text view 1"
android:textSize="24sp"
                                android:layout x="100dp"
android:layout y="100dp"/>
<EditText
       android:hint="@string/element 222"
android:textSize="24sp"
android:layout width="150dp"
android:layout height="wrap content"
android:id="@+id/edit text 1"
android:layout x="50dp"
android:layout y="200dp"/>
<Button
       android:text="@string/element 333"
android:textSize="24sp"
android:layout width="wrap content"
android:layout height="wrap content"
android:id="@+id/button 1"
android:layout x="200dp"
android:layout y="300dp"/>
```

#### </AbsoluteLayout>





### 3. OUTPUT:







