



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);
```

```
        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">

    <Button    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"/>

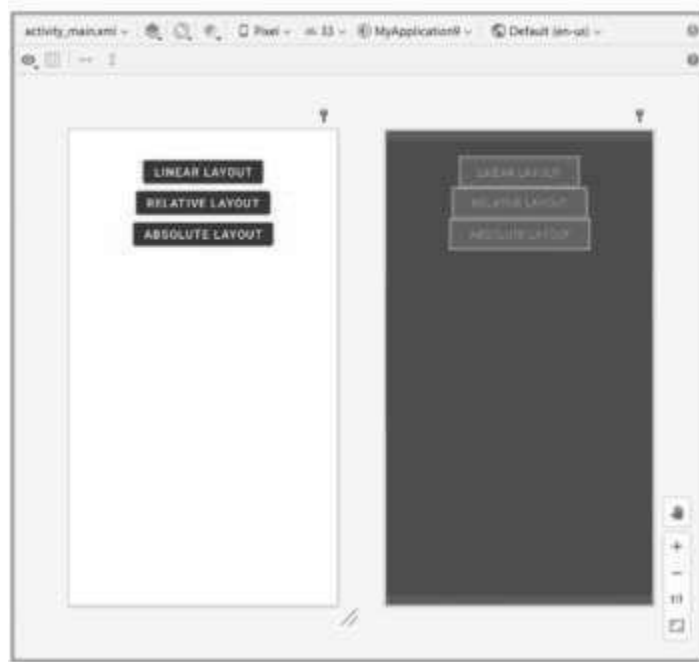
    <Button
        android:text="@string/relative_layout"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/relative_layout_button"
    android:textSize="18sp"
        android:layout_gravity="center_horizontal"/>

    <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:text="@string/name_Vimal Chandra" />
<TextView
    android:id="@+id/textView2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:layout_marginTop="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

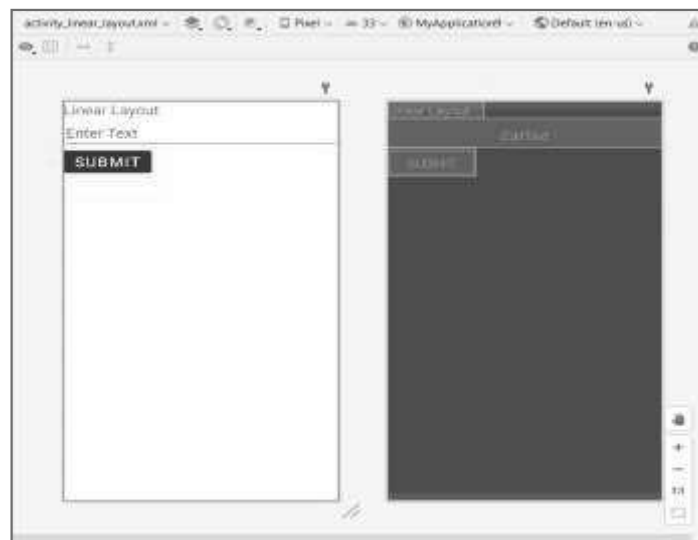
```
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <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" />

</LinearLayout>
```





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RelativeLayoutActivity.java

```
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"
    android:layout_width="match_parent"    android:layout_height="match_parent">

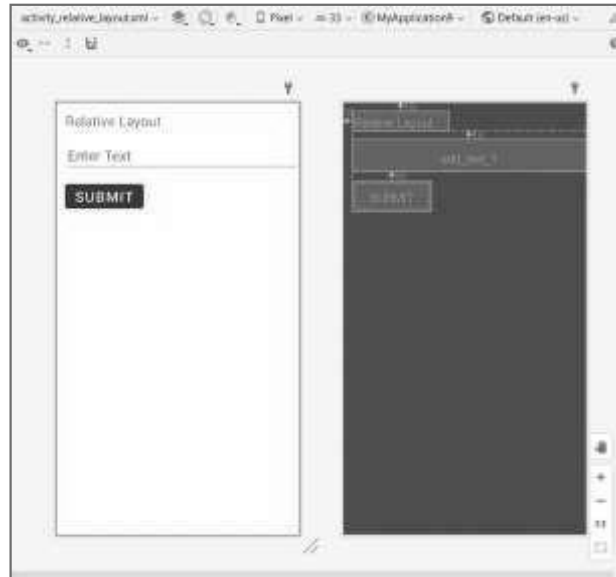
    <TextView
        android:text="@string/element_1"
        android:textSize="24sp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/text_view_1"
        android:layout_alignParentTop="true"
        android:layout_alignParentStart="true"
        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"/>

    <Button
        android:text="@string/element_3"
        android:textSize="24sp"
        android:layout_width="wrap_content"
        android:layout_height="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

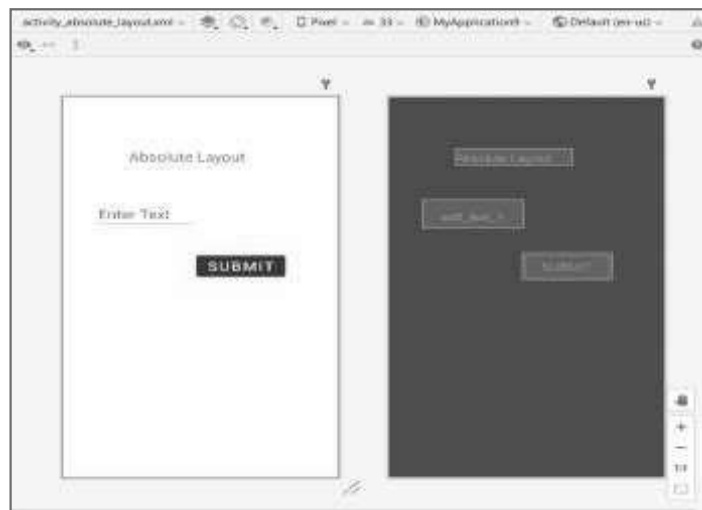
```
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"    android:layout_height="match_parent">

    <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:

