



## Experiment – 3.2

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Subject Name: MAD Lab

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Subject Code: 21CSH-355

**Aim:** Implement building blocks for Android Application using different layouts such as linear, relative and absolute

**Objective:-**The objective of implementing building blocks for an Android application using different layouts such as linear, relative, and absolute is to create a diverse and visually appealing user interface that accommodates various design requirements. Different layout types offer flexibility in organizing UI components, and understanding their usage is crucial for effective Android app development.

### 1. CODE: XML:-

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<AbsoluteLayout
```

```
xmlns:android="http://schemas.android.com/apk/res/andr
```

```
oid"
```

```
xmlns:app="http://schemas.android.com/apk/res-auto"
```

```
xmlns:tools="http://schemas.android.com/tools"
```

```
android:layout_width="fill_parent"
```



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```
android:layout_height="fill_parent"

tools:context=".MainActivity">

    <!--Setting up TextViews-->

    <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_x="100px"

android:layout_y="300px" />

    <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_x="120px"

android:layout_y="350px" />

</AbsoluteLayout> <RelativeLayout

android:layout_width="fill_parent"

android:layout_height="fill_parent"

xmlns:android="http://schemas.android.com/apk/res/a

ndroid">
```



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<Button

android:id="@+id/button1"

android:layout\_width="wrap\_conten

t"

android:layout\_height="wrap\_conte

nt" android:text="Top Left

Button"

android:layout\_alignParentLeft="tru

e"

android:layout\_alignParentTop="tru

e"/>

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_cont

ent"

android:layout\_height="wrap\_cont

ent" android:text="Top

Right Button"



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```
android:layout_alignParentTop="tr
```

```
ue"
```

```
android:layout_alignParentRight="
```

```
true"/>
```

```
<Button
```

```
android:id="@+id/button3"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:text="Bottom Left Button"
```

```
android:layout_alignParentLeft="true"
```

```
android:layout_alignParentBottom="tr
```

```
ue"/>
```

```
android:id="@+id/button5"
```

```
android:layout_width="fill_parent"
```

```
android:layout_height="wrap_content"
```

```
android:text="Middle Button"
```

```
android:layout_centerVertical="true"
```



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```
android:layout_centerHorizontal="true
```

```
"/>
```

```
</RelativeLayout>
```

## Java Code:-

```
import
```

```
androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle; import
```

```
android.widget.TextView; public class
```

```
MainActivity extends AppCompatActivity
```

```
{
```

```
    TextView heading, subHeading;
```

```
    @Override    protected void
```

```
onCreate(Bundle savedInstanceState) {
```

```
    super.onCreate(savedInstanceState);
```

```
    setContentView(R.layout.activity_main);
```

```
    // Referencing the TextViews    heading =
```

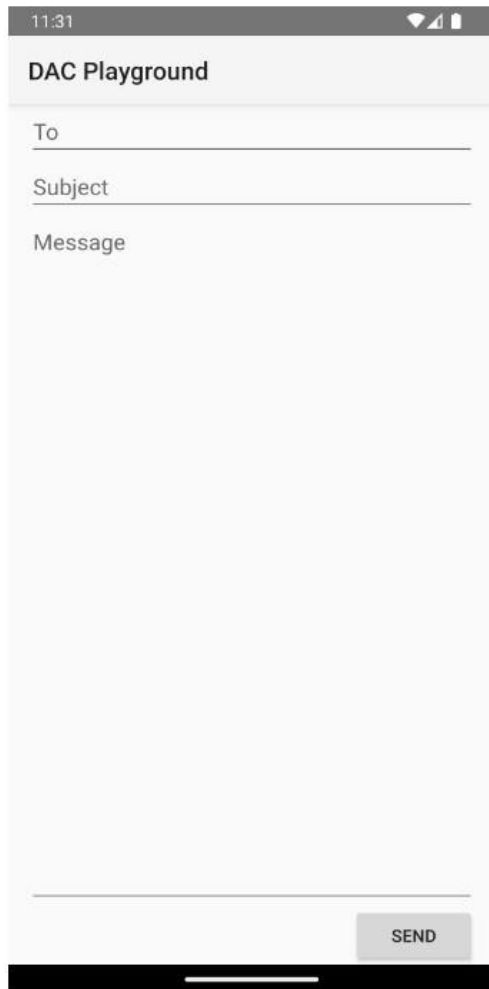
```
(TextView) findViewById(R.id.heading);
```

```
    subHeading = (TextView)
```

```
    findViewById(R.id.subHeading);
```

}}

## 2. OUTPUT:





The screenshot shows an Android application interface. At the top, there is a blue header bar with the text 'TableLayout'. Below the header, there is a table with three columns: 'Userid', 'User Name', and 'Location'. The table contains three rows of data. At the bottom of the screen, there is a copyright notice '© tutlane.com'.

Userid	User Name	Location
1	Suresh Dasari	Hyderabad
2	Rohini Alavala	Guntur
3	Trishika Dasari	Guntur

### 3. Learning Outcomes:

- Successful USE of your Android development environment.
- Project Workspace.
- Configuration button Completion.
- How to add new layouts