Experiment – 3.2

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

<AbsoluteLayout

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="fill_parent"
```

```xml
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">
```

```
<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"
```

```
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"
```

```xml
android:layout_centerHorizontal="true

"/>

</RelativeLayout>
```

Java Code:-

```java
import

androidx.appcompat.app.AppCompatActivi

ty; 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);
```
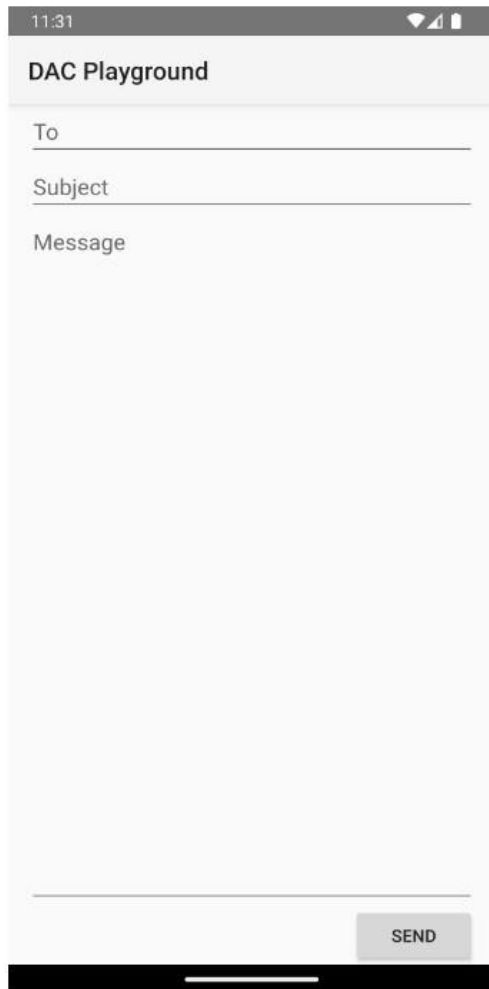
```
} }
```

2. **OUTPUT:**

3. **Learning Outcomes:**
   - Successful USE of your Android development environment.
   - Project Workspace.
   - Configuration button Completion.
   - How to add new layouts