



Experiment 3.2

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Subject Name: MADLAB

Subject Code: 21CSH-355

- 1. Aim:** Implement building blocks for Android Application using different layouts such as linear, relative and absolute.
- 2. 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.

3. Code and output:

- MainActivity.java

```
package com.example.exp32;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

- Activity_main.xml

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



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```
android:layout_height="match_parent"
android:orientation="vertical">

<AbsoluteLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:background="#fff000">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Absolute Layout Example"
        android:layout_x="50dp"
        android:layout_y="50dp" />
</AbsoluteLayout>

<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:background="#ff00ff">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Relative Layout Example"
        android:layout_centerInParent="true" />
</RelativeLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_marginTop="20dp"
    android:background="#00ff00">

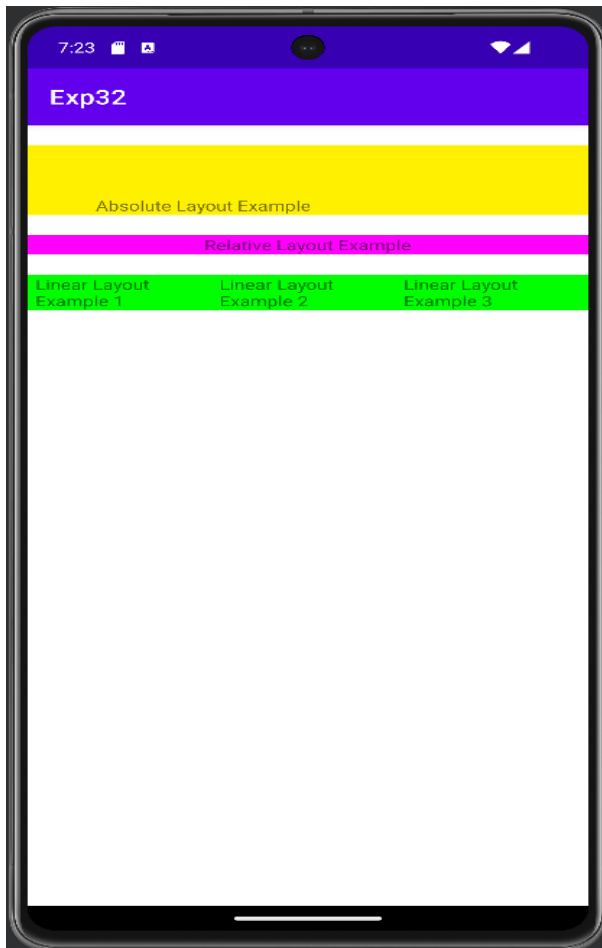
    <TextView
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Linear Layout Example 1"
        android:layout_marginLeft="20px"/>

    <TextView
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Linear Layout Example 2" />

    <TextView
        android:layout_width="0dp"
        android:layout_height="wrap_content"
```

```
        android:layout_weight="1"  
        android:text="Linear Layout Example 3" />  
    </LinearLayout>  
</LinearLayout>
```

Output



Learning Outcomes:

- Learnt how to Implement building blocks for Android Application using different layouts such as linear, relative and absolute.