

Experiment - 3.2

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Subject: MAD Lab

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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

activity relative layout.class);

```
package com.example.exp3 29;
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,
activity_linear_layout.class); startActivity(intent);
    });
relativeLayoutButton.setOnClickListener(v -> {
Intent intent = new Intent(MainActivity.this,
```

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```
startActivity(intent);
    absoluteLayoutButton.setOnClickListener(v -> {
Intent intent = new Intent(MainActivity.this,
activity absolute layout.class);
       startActivity(intent);
    });
}
activity main.xml
< LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:layout width="match parent"
android:layout height="match parent"
  android:orientation="vertical">
<Button
         android:id="@+id/linear layout button"
android:layout width="wrap_content"
android:layout height="wrap content"
android:layout gravity="center horizontal"
android:layout_marginTop="40dp"
                                     android:text="linear_layout"
    android:textSize="18sp"
<Button
         android:id="@+id/relative layout button"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout gravity="center horizontal"
android:text="relative layout"
    android:textSize="18sp"
    />
<Button
         android:id="@+id/absolute layout button"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout gravity="center horizontal"
android:text="absolute layout"
    android:textSize="18sp"
    />
<TextView
android:id="@+id/textView"
android:layout width="match parent"
android:layout height="wrap content"
android:layout marginStart="10dp"
assandroid:layout marginTop="40dp"
<TextView
android:id="@+id/textView2"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout marginStart="10dp"
android:layout_marginTop="10dp"
android:text="20BCS5156"
    android:textSize="16sp"
```



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```
activity linear layout.java
package com.example.exp3_29;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class activity linear layout 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:layout width="match parent"
android:layout height="match parent" android:orientation="vertical">
       <TextView
android:layout width="wrap content"
android:layout height="wrap content"
          android:text="element 11"
```

/LinearLayout>



activity_relative_layout.java
package com.example.exp3_29;
import

and roid x. app compat. app. App Compat Activity;

import android.os.Bundle;
public class activity_relative_layout 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:id="@+id/text view 1"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout alignParentStart="true"
android:layout_alignParentTop="true"
android:layout_marginStart="16dp"
android:layout marginTop="16dp"
android:text="element 1"
android:textSize="24sp" />
                  android:id="@+id/edit text 1"
<EditText
android:layout width="match parent" android:layout height="wrap content"
android:layout_below="@id/text view 1"
android:layout alignStart="@id/text view 1"
                                              android:layout marginTop="16dp"
android:hint="element_2" android:textSize="24sp" />
<Button
                  android:id="@+id/button_1"
android:layout width="wrap content" android:layout height="wrap content"
android:layout below="@id/edit text 1"
android:layout_alignStart="@id/edit_text_1"
                                     android:text="element 3"
android:layout marginTop="16dp"
android:textSize="24sp"/>
</RelativeLayout>
                                    activity_absolute_layout.java
    Exp 3.1(9)
                                    package com.example.exp3 29;
    element_1
    element_2
                                    import androidx.appcompat.app.AppCompatActivity;
    ELEMENT_3
                                    import android.os.Bundle;
                                    public class activity absolute layout 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:id="@+id/text view 1"
android:layout width="wrap content"
android:layout height="wrap content"
                                             android:layout x="100dp"
android:layout y="100dp" android:text="element 111"
android:textSize="24sp"/>
<EditText
                  android:id="@+id/edit_text_1"
android:layout width="150dp"
android:layout height="wrap content"
                                             android:layout x="50dp"
android:layout_y="200dp" android:hint="element_222"
android:textSize="24sp"/>
<Button
                  android:id="@+id/button_1"
android:layout width="wrap content"
android:layout height="wrap content"
                                             android:layout x="200dp"
android:layout_y="300dp" android:text="element 333"
android:textSize="24sp" />
```

</AbsoluteLayout>



