

## **LAB CYCLE 1**

### **Program1**

**AIM:** Hello world program

#### **Activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/e1"
        android:layout_width="match_parent"
        android:layout_height="39dp"
        android:ems="10"
        android:gravity="center_horizontal"
        android:inputType="textPersonName"
        android:text="HELLO WORLD" />

</RelativeLayout>
```

Main\_Activity.java

```
package com.example.s3;
```

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

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

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

```
import android.widget.TextView;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    TextView t,name2,t1, name;;
```

```
    Button btn;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

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

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

```
        TextView name = findViewById(R.id.e1);
```

```
    }
```

l1

Hello World!

## **PROGRAM 2**

**AIM:** Mobile application to display your details

### **Activity\_main.xml**

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

<RelativeLayout
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="match_parent"
    android:layout_height="match_parent"
    >

    <TextView
        android:id="@+id/textView"
        android:layout_width="394dp"
        android:layout_height="57dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="11dp"
        android:layout_marginLeft="11dp"
        android:layout_marginTop="31dp"
        android:layout_marginEnd="6dp"
        android:text="PERSONAL DETAILS"
```

```
android:textSize="30sp"  
android:gravity="center"  
android:textColor="#006600"/>
```

<TextView

```
android:id="@+id/textView2"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignParentStart="true"  
android:layout_alignParentLeft="true"  
android:layout_alignParentTop="true"  
android:layout_marginStart="62dp"  
android:layout_marginLeft="62dp"  
android:layout_marginTop="107dp"  
android:text="Name :"  
android:textSize="14sp"  
android:textStyle="bold"  
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView3"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignParentTop="true"  
android:layout_alignParentEnd="true"  
android:layout_alignParentRight="true"
```

```
android:layout_centerInParent="true"
android:layout_marginTop="103dp"
android:layout_marginEnd="51dp"
android:layout_marginRight="51dp"
android:text="MOHAMMED SALIH R K"
android:textSize="14sp"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginStart="67dp"
android:layout_marginLeft="67dp"
android:layout_marginTop="131dp"
android:text=" Age  :"
android:textSize="14sp"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView5"
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_marginTop="131dp"
android:layout_marginEnd="183dp"
android:layout_marginRight="183dp"
android:text="21"
android:textSize="14sp"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView7"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginStart="60dp"
android:layout_marginLeft="60dp"
android:layout_marginTop="160dp"
android:text=" Email  :"
android:textSize="14sp"
android:textStyle="bold"
```

```
android:textColor="#006666"/>
```

```
<TextView
```

```
    android:id="@+id/textView8"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_centerVertical="true"
    android:layout_marginTop="168dp"
    android:layout_marginEnd="113dp"
    android:layout_marginRight="113dp"
    android:text="s@gmail.com"
    android:textStyle="bold"
    android:textColor="#006666"/>
```

```
<TextView
```

```
    android:id="@+id/textView9"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:layout_centerVertical="true"
    android:layout_marginStart="35dp"
```



```
android:layout_marginLeft="35dp"
android:layout_marginTop="198dp"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView10"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginStart="54dp"
android:layout_marginLeft="54dp"
android:layout_marginTop="191dp"
android:text="Mobile : "
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView11"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
```

```
android:layout_alignParentTop="true"
android:layout_centerHorizontal="true"
android:layout_marginStart="195dp"
android:layout_marginLeft="195dp"
android:layout_marginTop="191dp"
android:text="9090909090"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView16"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginStart="21dp"
android:layout_marginLeft="21dp"
android:layout_marginTop="240dp"
android:text="Qualification  :"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView17"
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_marginTop="243dp"
android:layout_marginEnd="168dp"
android:layout_marginRight="168dp"
android:text="MCA"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView22"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginStart="46dp"
android:layout_marginLeft="46dp"
android:layout_marginTop="282dp"
android:text="Address  :"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

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

<RelativeLayout
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="match_parent"
    android:layout_height="match_parent"
    >
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="394dp"
    android:layout_height="57dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_centerHorizontal="true"
    android:layout_marginStart="11dp"
    android:layout_marginLeft="11dp"
    android:layout_marginTop="31dp"
    android:layout_marginEnd="6dp"
    android:text="PERSONAL DETAILS"
    android:textSize="30sp"
    android:gravity="center"
    android:textColor="#006600"/>
```

<TextView

```
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="62dp"
    android:layout_marginLeft="62dp"
    android:layout_marginTop="107dp"
    android:text="Name : "
    android:textSize="14sp"
    android:textStyle="bold"
    android:textColor="#006666"/>
```

<TextView

```
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_centerInParent="true"
    android:layout_marginTop="103dp"
    android:layout_marginEnd="51dp"
    android:layout_marginRight="51dp"
```

```
android:text="MOHAMMED SALIH R K"  
android:textSize="14sp"  
android:textStyle="bold"  
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView4"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignParentStart="true"  
android:layout_alignParentLeft="true"  
android:layout_alignParentTop="true"  
android:layout_marginStart="67dp"  
android:layout_marginLeft="67dp"  
android:layout_marginTop="131dp"  
android:text=" Age   :"  
android:textSize="14sp"  
android:textStyle="bold"  
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView5"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignParentTop="true"  
android:layout_alignParentEnd="true"
```

```
android:layout_alignParentRight="true"
android:layout_marginTop="131dp"
android:layout_marginEnd="183dp"
android:layout_marginRight="183dp"
android:text="21"
android:textSize="14sp"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView7"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginStart="60dp"
android:layout_marginLeft="60dp"
android:layout_marginTop="160dp"
android:text=" Email  :"
android:textSize="14sp"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView8"
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_centerVertical="true"
android:layout_marginTop="168dp"
android:layout_marginEnd="113dp"
android:layout_marginRight="113dp"
android:text="s@gmail.com"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView9"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_centerVertical="true"
android:layout_marginStart="35dp"
android:layout_marginLeft="35dp"
android:layout_marginTop="198dp"
android:textStyle="bold"
android:textColor="#006666"/>
```



<TextView

```
    android:id="@+id/textView10"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="54dp"
    android:layout_marginLeft="54dp"
    android:layout_marginTop="191dp"
    android:text="Mobile  :"
    android:textStyle="bold"
    android:textColor="#006666"/>
```

<TextView

```
    android:id="@+id/textView11"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginStart="195dp"
    android:layout_marginLeft="195dp"
```

```
android:layout_marginTop="191dp"
android:text="9090909090"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView16"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginStart="21dp"
android:layout_marginLeft="21dp"
android:layout_marginTop="240dp"
android:text="Qualification  :"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView17"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
```

```
android:layout_marginTop="243dp"
android:layout_marginEnd="168dp"
android:layout_marginRight="168dp"
android:text="MCA"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView22"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginStart="46dp"
android:layout_marginLeft="46dp"
android:layout_marginTop="282dp"
android:text="Address  :"
android:textStyle="bold"
android:textColor="#006666"/>
```

<TextView

```
android:id="@+id/textView23"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
```

```
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_marginTop="364dp"
android:layout_marginEnd="122dp"
android:layout_marginRight="122dp"
android:textStyle="bold"
android:textColor="#006666"/>
```

<EditText

```
android:id="@+id/editText2"
android:layout_width="172dp"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_marginTop="277dp"
android:layout_marginEnd="28dp"
android:layout_marginRight="28dp"
android:ems="10"
android:inputType="textPostalAddress"
android:text="Rayamarakkar House"
android:textSize="14sp"
android:textStyle="bold"
android:textColor="#006666"/>
```

<EditText

```
android:id="@+id/editText3"
android:layout_width="140dp"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_marginTop="316dp"
android:layout_marginEnd="59dp"
android:ems="10"
android:inputType="textPostalAddress"
android:text="P O PADOOR"
android:textSize="14sp"
android:textStyle="bold"
android:textColor="#006666"0/>
```

<TextView

```
android:id="@+id/textView24"
android:layout_width="wrap_content"
android:layout_height="wrap_content" />
```

</RelativeLayout>"

```
android:textSize="14sp"
android:textStyle="bold"
android:textColor="#006666"/>
```

```
<EditText
    android:id="@+id/editText3"
    android:layout_width="140dp"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="316dp"
    android:layout_marginEnd="59dp"
    android:ems="10"
    android:inputType="textPostalAddress"
    android:text="P O PADOOR"
    android:textSize="14sp"
    android:textStyle="bold"
    android:textColor="#006666"0/>
```

```
<TextView
    android:id="@+id/textView24"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />
```

```
</RelativeLayout>
```

## Main\_Activity.java

```
package com.example.l2;

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);
    }
}
```

12

## PERSONAL DETAILS

Name : MOHAMMED SALIH R K

Age : 21

Email : s@gmail.com

Mobile : 9090909090

Qualification : MCA

Address : Rayamarakkur House

P O PADOOR



### **PROGRAM 3**

**AIM:** Develop an android mobile application to display some QA in text boxes when a button event occurs. Set some questions in TextViews, display corresponding answers when a Button click event happens.

#### **Activity\_main.xml**

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

<RelativeLayout 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="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/e1"
        android:layout_width="match_parent"
        android:layout_height="39dp"
        android:ems="10"
        android:text="WHAT IS THE CAPITAL OF KERALA?"

        android:inputType="textPersonName" />

    <Button
        android:id="@+id/button"
        android:layout_width="145dp"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
```

```
android:layout_alignParentRight="true"
android:layout_alignParentBottom="true"
android:layout_marginLeft="14dp"
android:layout_marginTop="10dp"
android:layout_marginEnd="131dp"
android:layout_marginRight="131dp"
android:layout_marginBottom="304dp"
android:background="#1B857B"
android:onClick="OnClick()"
android:shadowColor="#120707"
android:text="SUBMIT"
android:textColor="#ffff"
android:textSize="20dp" />
```

<TextView

```
android:id="@+id/textView2"
android:layout_width="match_parent"
android:layout_height="84dp"
android:gravity="center_vertical"
/>
```

<TextView

```
android:id="@+id/textView3"
android:layout_width="match_parent"
android:layout_height="148dp"
android:gravity="center_vertical"
android:text="HOW MANY DISTRICTS IN KERALA" />
```

<TextView

```
        android:id="@+id/textView4"
        android:layout_width="match_parent"
        android:layout_height="218dp"
        android:gravity="center_vertical"
    />
```

```
</RelativeLayout>
```

### **Main\_Activity.java**

```
package com.example.s3;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    TextView t,name2,t1, name;;

    Button btn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

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

TextView name = findViewById(R.id.e1);
TextView name2 = findViewById(R.id.textView3);


TextView t=findViewById(R.id.textView2);
TextView t1=findViewById(R.id.textView4);
Button btn=findViewById(R.id.button);
btn.setOnClickListener(new View.OnClickListener() {

    @Override
    public void onClick(View v) {

        t.setText("THIRUVANATHAPURAM");

        t1.setText("14");

    }

});

}
```

1:55 PM | 4.6KB/s



s3

WHAT IS THE CAPITAL OF KERALA?

HOW MANY DISTRICTS IN KERALA

SUBMIT

---

1:55 PM | 0.0KB/s



s3

WHAT IS THE CAPITAL OF KERALA?

THIRUVANATHAPURAM

HOW MANY DISTRICTS IN KERALA

14

SUBMIT

---

## **PROGRAM 4**

**AIM:** Develop an android mobile application which accepts a string via editText and Toast it.

### **activity Main.xml**

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

<RelativeLayout
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="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/e1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="ENTER YOUR NAME"
        android:inputType="textPersonName" />

    <Button
        android:id="@+id/button"
        android:layout_width="145dp"
```

```
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_alignParentBottom="true"
        android:layout_marginLeft="14dp"
        android:layout_marginTop="10dp"
        android:layout_marginEnd="146dp"
        android:layout_marginRight="146dp"
        android:layout_marginBottom="638dp"
        android:background="#1B857B"
        android:onClick="OnClick()"
        android:shadowColor="#120707"
        android:text="SUBMIT"
        android:textColor="#ffff"
        android:textSize="20dp" />/>
</RelativeLayout>
```

### Main Activity.java

```
package com.example.s3;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
```



```

public class MainActivity extends AppCompatActivity {
    EditText name;
    String str;
    Button btn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        EditText name = findViewById(R.id.e1);
        Button btn=findViewById(R.id.button);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                str=name.getText().toString();
                Toast.makeText(getApplicationContext(),"hello
"+str,Toast.LENGTH_LONG).show();
            }
        });
    }

    public void OnClick(View view) {
    }
}

```

1:45 PM | 0.0KB/s



s3

swali

SUBMIT

hello swali

## **PROGRAM 5**

### **AIM:**

Develop an android mobile application to perform calculator functions. Accept inputs from GUI.

### **activity\_Main.xml**

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

```
<RelativeLayout
```

```
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="match_parent"
```

```
android:layout_height="match_parent"
```

```
tools:context=".MainActivity">
```

```
<LinearLayout
```

```
android:layout_width="match_parent"
```

```
android:layout_height="match_parent"
```

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

```
<TextView
```

```
android:id="@+id/textView4"
```

```
android:layout_width="match_parent"
```

```
android:layout_height="37dp"
```

```
android:text="CALCULATOR"
```

```
android:gravity="center"
```

**android:textColor="#066666"**

**android:textSize="20dp"/>**

**<EditText**

**android:id="@+id/editTextTextPersonName3"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:ems="10"**

**android:inputType="number"**

**android:hint="Enter number1" />**

**<EditText**

**android:id="@+id/editTextTextPersonName4"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:ems="10"**

**android:inputType="number"**

**android:hint="enter number2" />**

**<TextView**

**android:id="@+id/textView2"**

**android:layout\_width="match\_parent"**

**android:layout\_height="37dp"**

**android:text="Result" />**

**<LinearLayout**

**android:layout\_width="match\_parent"**  
**android:layout\_height="match\_parent"**  
**android:orientation="horizontal">**

**<Button**

**android:id="@+id/button"**  
**android:layout\_width="wrap\_content"**  
**android:layout\_height="wrap\_content"**  
**android:layout\_weight="1"**  
**android:text="+" />**

**<Button**

**android:id="@+id/button2"**  
**android:layout\_width="wrap\_content"**  
**android:layout\_height="wrap\_content"**  
**android:layout\_weight="1"**  
**android:text="-" />**

**<Button**

**android:id="@+id/button3"**  
**android:layout\_width="wrap\_content"**  
**android:layout\_height="wrap\_content"**  
**android:layout\_weight="1"**  
**android:text="\*" />**

```
<Button
    android:id="@+id/button4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="/" />
</LinearLayout>
</LinearLayout>
</RelativeLayout>
```

### Main Activity.java

```
package com.example.lab5;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    EditText e1,e2;
    TextView t;
    Button sum,prod,diff,div;

    String s1,s2;
```

**@Override**

**protected void onCreate(Bundle savedInstanceState) {**

**super.onCreate(savedInstanceState);**

**setContentView(R.layout.activity\_main);**

**EditText e1=findViewById(R.id.editTextTextPersonName3);**

**EditText e2=findViewById(R.id.editTextTextPersonName4);**

**TextView t=findViewById(R.id.textView2);**

**Button sum=findViewById(R.id.button);**

**Button diff=findViewById(R.id.button2);**

**Button prod=findViewById(R.id.button3);**

**Button div=findViewById(R.id.button4);**

**s1=e1.getText().toString();**

**s2=e2.getText().toString();**

**sum.setOnClickListener(new View.OnClickListener() {**

**@Override**

**public void onClick(View v) {**

**double oper1 = Double.parseDouble(e1.getText().toString());**

**double oper2 = Double.parseDouble(e2.getText().toString());**

**double result = oper1 + oper2;**

**t.setText(Double.toString(result));**

**}**

**});**

**diff.setOnClickListener(new View.OnClickListener() {**

**@Override**

**public void onClick(View v) {**

```

        double oper1 = Double.parseDouble(e1.getText().toString());
        double oper2 = Double.parseDouble(e2.getText().toString());
        double result = oper1 - oper2;
        t.setText(Double.toString(result));
    }
});

prod.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        double oper1 = Double.parseDouble(e1.getText().toString());
        double oper2 = Double.parseDouble(e2.getText().toString());
        double result = oper1 * oper2;
        t.setText(Double.toString(result));
    }
});

div.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        double oper1 = Double.parseDouble(e1.getText().toString());
        double oper2 = Double.parseDouble(e2.getText().toString());
        double result = oper1 / oper2;
        t.setText(Double.toString(result));
    }
});
}
}

```



8:37 PM | 0.0KB/s

Vo WiFi Vo WiFi 89

lab5

## CALCULATOR

Enter number1

enter number2

Result

+

-

\*

/

8:37 PM | 10.0KB/s



lab5

## CALCULATOR

8

6

14.0

+

-

\*

/

8:37 PM | 12.0KB/s

Vo WiFi Vo WiFi 89

lab5

## CALCULATOR

8

6

48.0

+

-

\*

/