**EXERCISE:-1**

**AIM:-**

Develop an application that uses controls, size ,fonts and colors. (3 Buttons (RED,BLUE,GREEN) and a TextView with a message.

**SOURCE CODE:-**

**Activity_main.xml**

```
?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/txt1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        android:textSize="20dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/btnred"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Red"
        app:backgroundTint="#E43434"
        app:iconTint="#D51010"
```

```
        tools:layout_editor_absoluteX="151dp"

        tools:layout_editor_absoluteY="134dp" />


    <Button

        android:id="@+id/btngreen"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Green"

        app:backgroundTint="#4CAF50"

        tools:layout_editor_absoluteX="151dp"

        tools:layout_editor_absoluteY="211dp" />


    <Button

        android:id="@+id/btnblue"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Blue"

        app:backgroundTint="#1C8BE3"

        tools:layout_editor_absoluteX="151dp"

        tools:layout_editor_absoluteY="272dp" />


    <Button

        android:id="@+id/btnsize"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="+" />


</LinearLayout>
```

**Main_activity.java**

```
package com.example.myapplication;
```

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


import android.graphics.Color;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;


import org.w3c.dom.Text;


public class MainActivity extends AppCompatActivity implements
View.OnClickListener {
Button b1,b2,b3,b4;
TextView tv1;
float s=15;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_main);
      b1=(Button) findViewById(R.id.btnred);
      b2=(Button) findViewById(R.id.btngreen);
      b3=(Button) findViewById(R.id.btnblue);
      b4=(Button) findViewById(R.id.btnsize);
      tv1=(TextView) findViewById(R.id.txt1);
      b1.setOnClickListener(this);
      b2.setOnClickListener(this);
      b3.setOnClickListener(this);
      b4.setOnClickListener(this);
   }
   public void onClick(View v)
   {
      switch (v.getId()){
         case R.id.btnred:
            tv1.setTextColor(Color.RED);
```
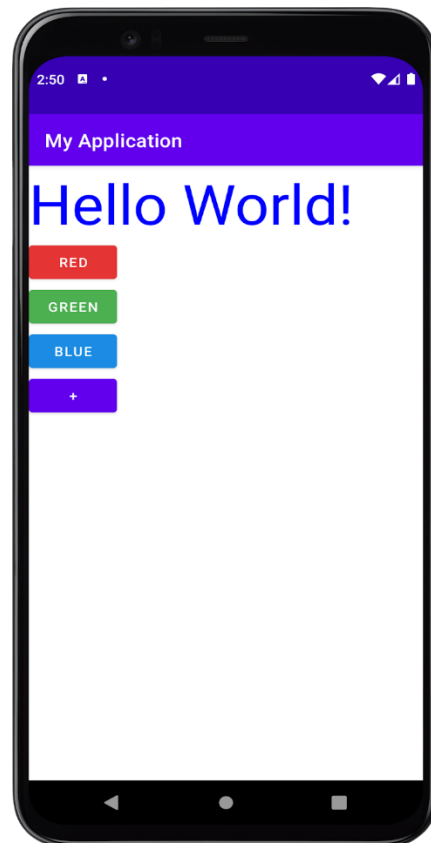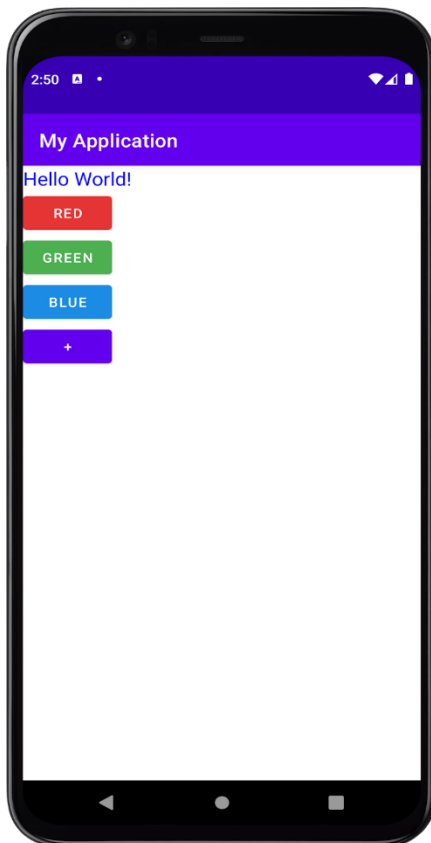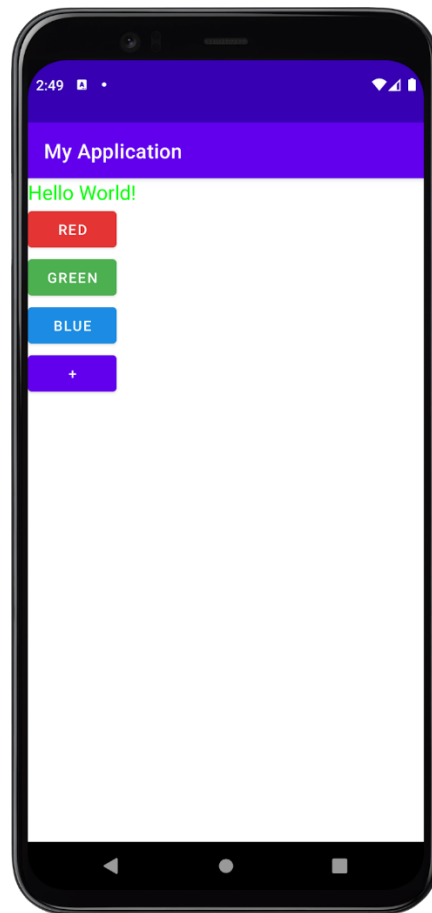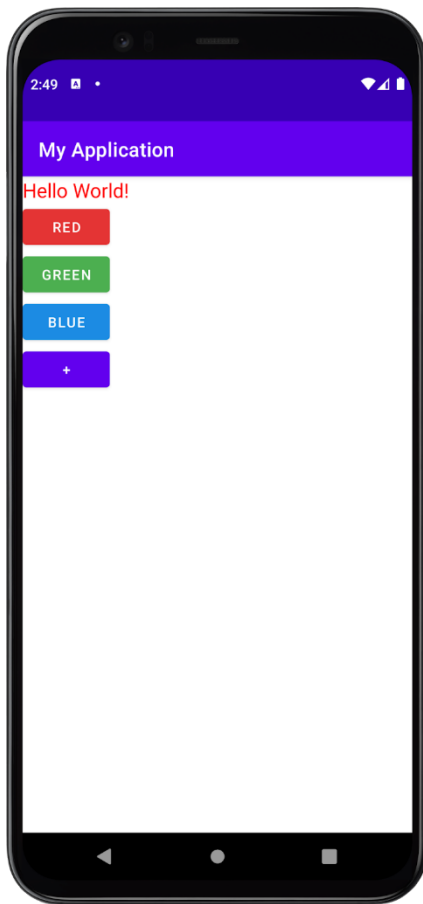
```
            break;
      case R.id.btngreen:
         tv1.setTextColor(Color.GREEN);
         break;
      case R.id.btnblue:
         tv1.setTextColor(Color.BLUE);
         break;
      case R.id.btnsize:
         s=s+s;
         if(s>100)
         {
            s=15;
            tv1.setTextSize(s);
         }
         else
         {
            tv1.setTextSize(s);
         }
      }

   }
}
```

**OUTPUT:-**

**RESULT:-**

Program executed and Results verified.

### EXERCISE:-2

**AIM:-**

Develop an application to perform arithmetic operations like addition, subtraction, multiplication and division.

**SOURCE CODE:-**

**Activity_main.xml**

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

<LinearLayout 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"

android :orientation ="vertical"

tools :context =".MainActivity" >


<TextView

android :id ="@+id/textView"

android :layout_width ="wrap_content"

android :layout_height ="54dp"

android :text ="CALCULATOR"

android :textSize ="50dp"

app :layout_constraintBottom_toBottomOf ="parent"

app :layout_constraintEnd_toEndOf ="parent"

app :layout_constraintHorizontal_bias ="0.563"

app :layout_constraintStart_toStartOf ="parent"

app :layout_constraintTop_toTopOf ="parent"

app :layout_constraintVertical_bias ="0.063" />

<EditText

android :id ="@+id/num1"

android :layout_width ="64dp"
```

```
android :layout_height ="wrap_content"

app :layout_constraintBottom_toBottomOf ="parent"

app :layout_constraintEnd_toEndOf ="parent"

app :layout_constraintHorizontal_bias ="0.507"

app :layout_constraintStart_toStartOf ="parent"

app :layout_constraintTop_toTopOf ="parent"

app :layout_constraintVertical_bias ="0.195"

tools :ignore ="TouchTargetSizeCheck" ></EditText>

<EditText

android :id ="@+id/num2"

android :layout_width ="64dp"

android :layout_height ="wrap_content"

app :layout_constraintBottom_toBottomOf ="parent"

app :layout_constraintEnd_toEndOf ="parent"

app :layout_constraintHorizontal_bias ="0.507"

app :layout_constraintStart_toStartOf ="parent"

app :layout_constraintTop_toTopOf ="parent"

app :layout_constraintVertical_bias ="0.262"

tools :ignore ="TouchTargetSizeCheck" ></EditText>


<Button


android :id ="@+id/bta"

android :layout_width ="wrap_content"

android :layout_height ="wrap_content"

android :text ="+"

app :layout_constraintBottom_toBottomOf ="parent"

app :layout_constraintEnd_toEndOf ="parent"

app :layout_constraintHorizontal_bias ="0.275"

app :layout_constraintStart_toStartOf ="parent"
```

```
app :layout_constraintTop_toTopOf ="parent"

app :layout_constraintVertical_bias ="0.405" />


<Button

android :id ="@+id/bts"

android :layout_width ="wrap_content"

android :layout_height ="wrap_content"

android :text ="-"

app :layout_constraintBottom_toBottomOf ="parent"

app :layout_constraintEnd_toEndOf ="parent"

app :layout_constraintHorizontal_bias ="0.727"

app :layout_constraintStart_toStartOf ="parent"

app :layout_constraintTop_toTopOf ="parent"

app :layout_constraintVertical_bias ="0.405" />

<Button

android :id ="@+id/btm"

android :layout_width ="wrap_content"

android :layout_height ="wrap_content"

android :text ="*"

app :layout_constraintBottom_toBottomOf ="parent"

app :layout_constraintEnd_toEndOf ="parent"

app :layout_constraintHorizontal_bias ="0.275"

app :layout_constraintStart_toStartOf ="parent"

app :layout_constraintTop_toTopOf ="parent"

app :layout_constraintVertical_bias ="0.519" />

<Button

android :id ="@+id/btd"

android :layout_width ="wrap_content"

android :layout_height ="wrap_content"

android :text ="/"
```

```xml
app :layout_constraintBottom_toBottomOf ="parent"

app :layout_constraintEnd_toEndOf ="parent"

app :layout_constraintHorizontal_bias ="0.727"

app :layout_constraintStart_toStartOf ="parent"

app :layout_constraintTop_toTopOf ="parent"

app :layout_constraintVertical_bias ="0.519" />


<TextView

android :id ="@+id/rslt"

android :layout_width ="71dp"

android :layout_height ="36dp"

app :layout_constraintBottom_toBottomOf ="parent"

app :layout_constraintEnd_toEndOf ="parent"

app :layout_constraintHorizontal_bias ="0.498"

app :layout_constraintStart_toStartOf ="parent"

app :layout_constraintTop_toTopOf ="parent"

app :layout_constraintVertical_bias ="0.795" />

</LinearLayout>
```

**Main_activity.java**

```java
package com.example.calculus ;

import androidx.appcompat.app.AppCompatActivity ;

import android.os.Bundle ;

import android.text.TextUtils ;

import android.view.View ;

import android.widget.Button ;

import android.widget.EditText ;

import android.widget.TextView ;

public class MainActivity extends AppCompatActivity implements
View.OnClickListener{

EditText num1 ;

EditText num2 ;
```
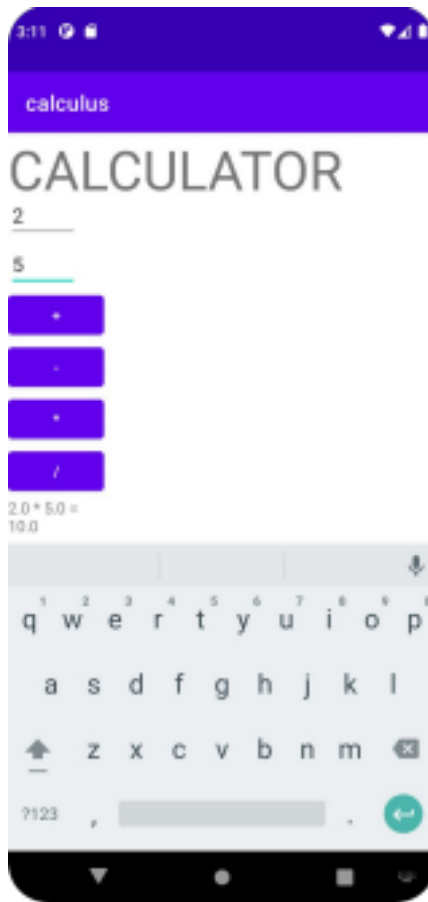
```
Button btm ;

Button bta ;

Button bts ;

Button btd ;

TextView rslt ;

String op = "" ;

@Override

protected void onCreate (Bundle savedInstanceState) {

super .onCreate(savedInstanceState) ;

setContentView(R.layout. activity_main ) ;

num1 =(EditText) findViewById(R.id. num1 ) ;

num2 =(EditText) findViewById(R.id. num2 ) ;

btm =(Button) findViewById(R.id. btm ) ;

bta =(Button) findViewById(R.id. bta ) ;

bts =(Button) findViewById(R.id. bts ) ;

btd =(Button) findViewById(R.id. btd ) ;

rslt =(TextView) findViewById(R.id. rslt ) ;

btm .setOnClickListener((View.OnClickListener) this ) ;

bta .setOnClickListener((View.OnClickListener) this ) ;

bts .setOnClickListener((View.OnClickListener) this ) ;

btd .setOnClickListener((View.OnClickListener) this ) ;

}

public void onClick (View v){

float n1= 0 ;

float n2= 0 ;

float result= 0 ;

if (TextUtils. isEmpty ( num1 .getText().toString()) ||

TextUtils. isEmpty ( num2 .getText().toString())){

return;

}
```

```
n1=Float. parseFloat ( num1 .getText().toString()) ;

n2=Float. parseFloat ( num2 .getText().toString()) ;

switch (v.getId())

{

case R.id. btm :

op = "*" ;


result=n1*n2 ;

break;

case R.id. bta :

op = "+" ;

result=n1+n2 ;

break;

case R.id. bts :

op = "-" ;

result=n1-n2 ;

break;

case R.id. btd :

op = "/" ;

result=n1/n2 ;

break;

default :

break;

}

rslt .setText(n1+ " " + op + " " +n2+ " = " +result) ;

}

}
```

**OUTPUT:-**



**RESULT:-**

Program executed and Results verified.

**EXERCISE:-3**

**AIM:-**

Develop a Login application.

**SOURCE CODE:-**

**Activity_main.xml**

```xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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/textView"
        android:layout_width="96dp"
        android:layout_height="28dp"
        android:text="USER NAME"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.09"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.143" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="97dp"
        android:layout_height="34dp"
        android:text="PASSWORD"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```
        app:layout_constraintHorizontal_bias="0.095"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.254" />


    <EditText

        android:id="@+id/name"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:ems="10"

        android:inputType="textPersonName"

        android:text="Name"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.746"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.122" />


    <EditText

        android:id="@+id/pass"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:ems="10"

        android:inputType="textPersonName"

        android:text="Name"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.746"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.241" />


    <Button
```

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

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="submit"

        android:onClick="onClick"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.386"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.462" />

</android.support.constraint.ConstraintLayout>
```

**Main_activity.java**

```java
package com.example.myapplication;


import android.support.v7.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 e1,e2;

    Button b1;

    String uname;

    String password;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        e1=(EditText) findViewById(R.id.name);

        e2=(EditText) findViewById(R.id.pass);
```

```
        b1=(Button) findViewById(R.id.button);


    }


    public void onClick(View view) {
        uname = e1.getText().toString();


        password = e2.getText().toString();
        Toast.makeText(this,"Have a Good day", Toast.LENGTH_SHORT).show();
        if (uname.equals("FISAT") && password.equals("1234"))
        {
            Toast.makeText(this," WELL DONE", Toast.LENGTH_SHORT).show();
        }
        else


        {
            Toast.makeText(this, " Sorry.... Wrong Credentials...",
    Toast.LENGTH_SHORT).show();
        }


    }
}
```
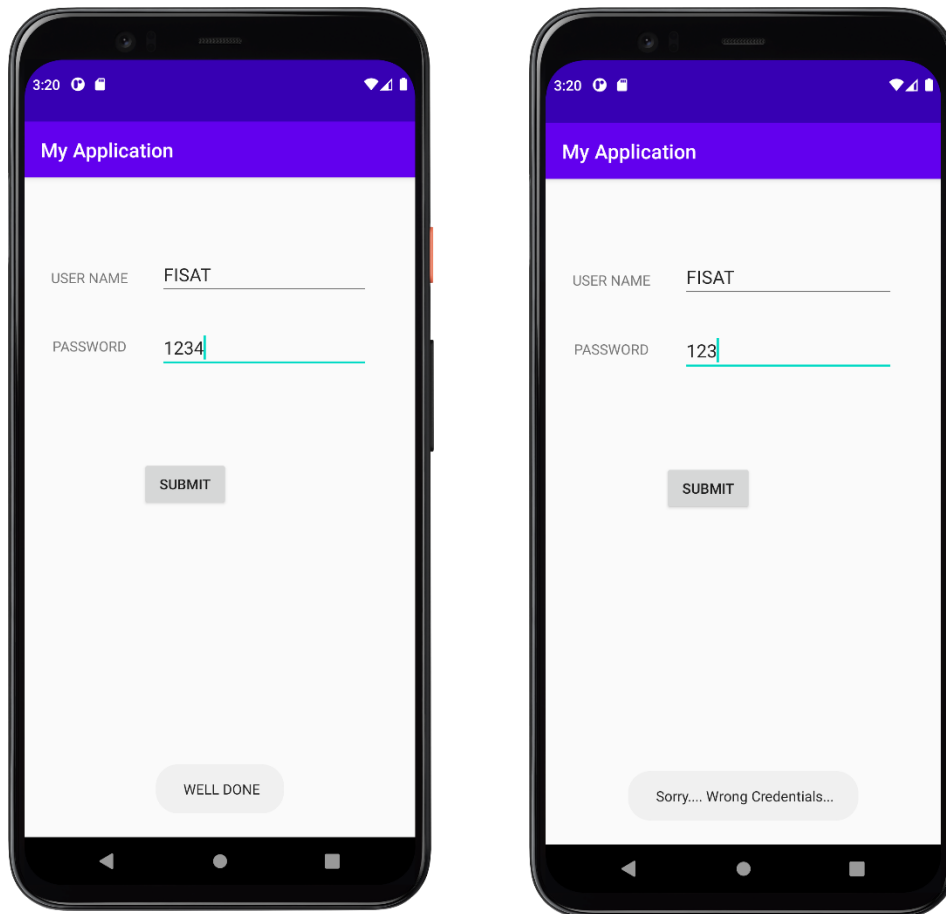
## OUTPUT:-



## RESULT:-

Program executed and Results verified.

**EXERCISE:-4**

**AIM:-**

Develop an App to show the use of Implicit Intents.

**SOURCE CODE:-**

**Activity_main.xml**

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

<androidx.constraintlayout.widget.ConstraintLayout
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/editText"

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent" />

  <Button

android:id="@+id/btn"

android:text="Search"
```

android:onClick="search"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toBottomOf="@+id/editText" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Main_activity.java**

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

EditText editText;

Button button;

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

```
button = findViewById(R.id.btn);

editText = (EditText) findViewById(R.id.editText);

button.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String url=editText.getText().toString();

Intent intent = new Intent(Intent.ACTION_VIEW, Uri.parse(url));

startActivity(intent);

}

});

}

}
```
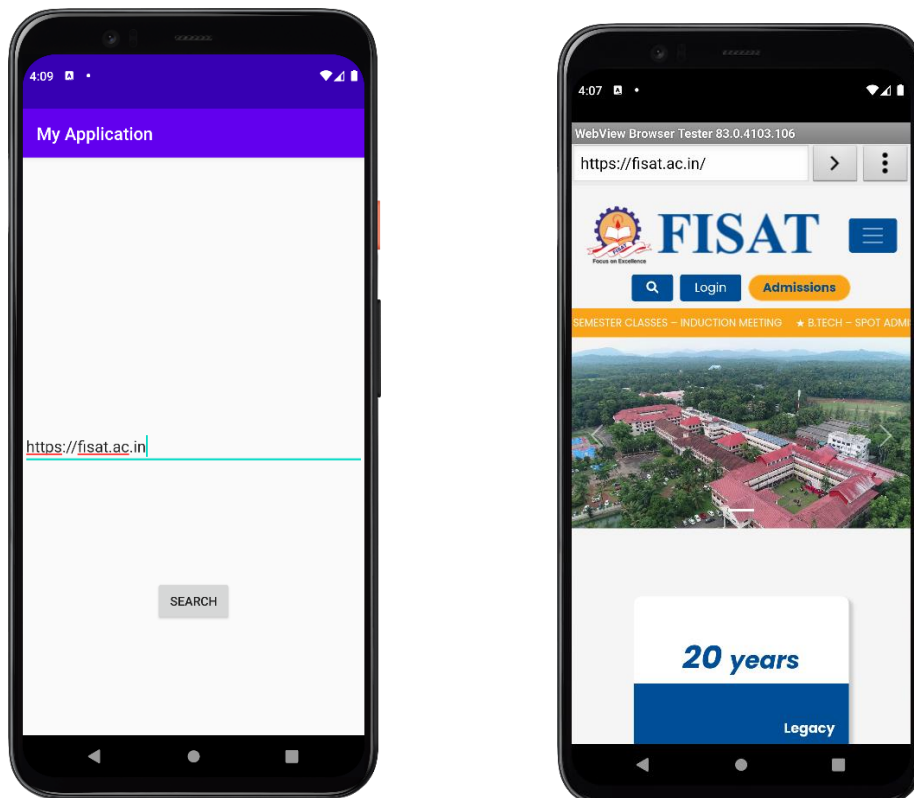
**OUTPUT:-**

**RESULT:-**

Program executed and Results verified.

**EXERCISE:-5**

**AIM:-**

Develop an application to pass values between activities. Read 3 numbers in One activity. Pass these values to another activity display sum and average of these numbers.

**SOURCE CODE:-**

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="READ NUMBERS"
        android:textColor="#55B"
        android:textSize="30sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.108" />

    <TextView
        android:id="@+id/textView2"
```

```
    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="First Number"

    android:textSize="20sp"

    android:textStyle="bold"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintHorizontal_bias="0.054"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintVertical_bias="0.275" />


<EditText

    android:id="@+id/editText1"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:ems="10"

    android:inputType="textPersonName"

    android:text=""

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintHorizontal_bias="0.92"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintVertical_bias="0.269" />


<TextView

    android:id="@+id/textView3"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="Second Number"

    android:textSize="20sp"

    android:textStyle="bold"

    app:layout_constraintBottom_toBottomOf="parent"
```

```
        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.06"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.362" />


    <EditText

        android:id="@+id/editText2"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:ems="10"

        android:inputType="textPersonName"

        android:text=""

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.925"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.357" />


    <TextView

        android:id="@+id/textView4"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Third Number"

        android:textSize="20sp"

        android:textStyle="bold"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.056"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.453" />
```

```xml
    <EditText
        android:id="@+id/editText3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text=""
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.92"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.454" />


    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="submit"
        android:onClick="showActivity"
        tools:layout_editor_absoluteX="147dp"
        tools:layout_editor_absoluteY="469dp" />


</androidx.constraintlayout.widget.ConstraintLayout>
```

**Main_activity.java**

```java
package com.example.readnum;


import androidx.appcompat.app.AppCompatActivity;


import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```

```
import android.widget.EditText;


public class MainActivity extends AppCompatActivity {
    EditText First;
    EditText Second;
    EditText Third;
    Button Submit;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        First = (EditText) findViewById((R.id.editText1));
        Second = (EditText) findViewById((R.id.editText2));
        Third = (EditText) findViewById((R.id.editText3));
        Submit = (Button) findViewById(R.id.button);
    }


    public void showActivity(View v)
    {
        int a = Integer.parseInt(First.getText().toString());
        int b = Integer.parseInt(Second.getText().toString());
        int c = Integer.parseInt(Third.getText().toString());
        Intent i = new Intent((MainActivity.this,MainActivity2.class));
        i.putExtra("First",a);
        i.putExtra("Second",b);
        i.putExtra("Third",c);
        startActivity(i);
    }
}
```

**activity_main1.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
```

```xml
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=".MainActivity2">

    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Sum"
        android:textColor="#97f"
        android:textSize="30sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.091"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.332" />

    <TextView
        android:id="@+id/textView6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Average"
        android:textColor="#97f"
        android:textSize="30sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.053"
        app:layout_constraintStart_toStartOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintVertical_bias="0.474" />


<Button

    android:id="@+id/button2"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="Back"

    android:onClick="Back"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintHorizontal_bias="0.498"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintVertical_bias="0.723" />


<TextView

    android:id="@+id/textView7"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="Sum And Average"

    android:textColor="#18f"

    android:textSize="40sp"

    android:textStyle="bold"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintVertical_bias="0.098" />


<EditText

    android:id="@+id/editText1"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"
```

```xml
        android:ems="10"

        android:inputType="textPersonName"

        android:text=""

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.84"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.333" />


   <EditText

        android:id="@+id/editText2"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:ems="10"

        android:inputType="textPersonName"

        android:text=""

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.835"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.478" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

**Main_activity1.java**

```java
package com.example.readnum;


import androidx.appcompat.app.AppCompatActivity;


import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```
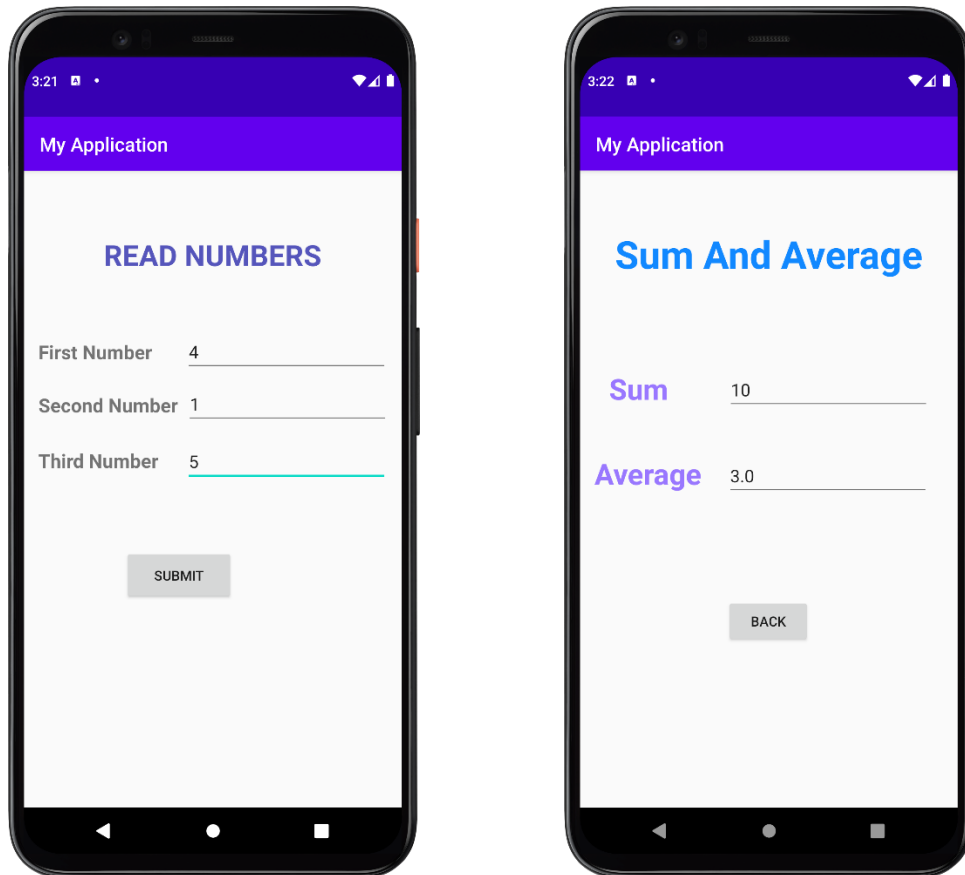
```java
import android.widget.EditText;


public class MainActivity2 extends AppCompatActivity {
    EditText Sum;
    EditText Average;
    Button back;



    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        Sum=(EditText) findViewById(R.id.editText1);
        Average=(EditText) findViewById(R.id.editText2);
        back=(Button) findViewById(R.id.button2);
        Intent i = getIntent();
        int a = i.getIntExtra("First",0);
        int b = i.getIntExtra("Second",0);
        int c = i.getIntExtra("Third",0);
        int sum = (a+b+c);
        float avg = sum/3;
        Sum.setText(String.valueOf(sum));
        Average.setText(String.valueOf(avg));
    }
    public void Back(View v)
    {
        Intent intent = new Intent(MainActivity2.this,MainActivity.class);
        startActivity(intent);
    }


}
```

**OUTPUT:-**



**RESULT:-**

Program executed and Results verified.