AIM

Develop an application that uses controls, size ,fonts and colors. Use 3 Buttons (RED, BLUE, GREEN) and a Text View with a Message.

PROGRAM

```
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">
       <TextView
       android:id="@+id/textView3"
       android:layout width="97dp"
      android:layout height="34dp"
       android:text="change the button color"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintHorizontal bias="0.456"
```

```
app:layout_constraintStart_toStartOf="parent"
app:layout constraintTop toTopOf="parent"
app:layout constraintVertical bias="0.084"/>
<Button
android:id="@+id/button4"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:text="RED"
android:onClick="color1"
app:layout constraintBottom toBottomOf="parent"
app:layout constraintEnd toEndOf="parent"
app:layout constraintHorizontal bias="0.446"
app:layout constraintStart toStartOf="parent"
app:layout constraintTop toTopOf="parent"
app:layout constraintVertical bias="0.235"/>
<Button
android:id="@+id/button5"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:text="BLUE"
```

```
android:onClick="color1"
app:layout constraintBottom toBottomOf="parent"
app:layout constraintEnd toEndOf="parent"
app:layout constraintHorizontal bias="0.446"
app:layout constraintStart toStartOf="parent"
app:layout constraintTop toBottomOf="@+id/textView3"
app:layout constraintVertical bias="0.276"/>
<Button
android:id="@+id/button6"
android:layout width="wrap content"
android:layout height="wrap content"
android:text="GREEN"
android:onClick="color1"
app:layout constraintBottom toBottomOf="parent"
app:layout constraintEnd toEndOf="parent"
app:layout constraintHorizontal bias="0.446"
app:layout_constraintStart_toStartOf="parent"
app:layout constraintTop toTopOf="parent"
app:layout constraintVertical bias="0.499" />
<TextView
android:id="@+id/textView4"
android:layout width="88dp"
```

```
android:layout height="39dp"
       android:text="color change"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintHorizontal bias="0.442"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout_constraintVertical_bias="0.656" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.example.project1;
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;
public class MainActivity extends AppCompatActivity {
       TextView t1;
       Button b1,b2,b3;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
```

```
super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    t1=(TextView) findViewById(R.id.textView4);
    b1=(Button) findViewById(R.id.button4);
    b2=(Button) findViewById(R.id.button5);
    b3=(Button) findViewById(R.id.button6);
public void color1(View view)
       int viewid=view.getId();
       if(viewid==R.id.button4)
              t1.setTextColor(Color.RED);
       }
       else if (viewid==R.id.button5)
              t1.setTextColor(Color.BLUE);
       else
              t1.setTextColor(Color.GREEN);
       }
```



AIM

Develop an Android Application to generate a Fibonacci series of n numbers. Read n from user.

PROGRAM

```
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">
       <TextView
       android:id="@+id/textView"
       android:layout width="174dp"
       android:layout_height="57dp"
       android:background="#F1A7A7"
       android:text="FIBONOCCI"
```

android:textAlignment="center"

```
android:textSize="24sp"
android:textStyle="bold"
app:layout_constraintTop_toTopOf="parent"
app:layout constraintVertical bias="0.081"/>
<TextView
android:id="@+id/textView2"
android:layout_width="150dp"
android:layout height="47dp"
android:text="enter the number: "
android:textAlignment="center"
android:textSize="16sp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout constraintVertical bias="0.248"/>
<EditText
android:id="@+id/editTextText"
android:layout width="wrap content"
android:layout height="wrap content"
android:ems="10"
android:hint="number"
android:inputType="text"
```

```
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="0.409" />
<Button
android:id="@+id/button"
android:layout width="104dp"
android:layout height="58dp"
android:text="Button"
android:onClick="fib"
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="0.567"/>
<TextView
android:id="@+id/textView4"
android:layout width="177dp"
```

```
android:layout height="66dp"
       app:layout constraintBottom toBottomOf="parent"
       app:layout_constraintEnd_toEndOf="parent"
       app:layout constraintHorizontal bias="0.491"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.765"/>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.example.fib;
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;
public class MainActivity extends AppCompatActivity {
       TextView t1;
       Button b1;
       EditText e1;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
```

```
super.onCreate(savedInstanceState);
              setContentView(R.layout.activity main);
              t1=findViewById(R.id.textView4);
              e1=findViewById(R.id.editTextText);
              b1=findViewById(R.id.button);
       public void fib(View view){
              Double n=Double.parseDouble(e1.getText().toString());
              int first = 0, second = 1;
              for (int i = 0; i < n; i++)
              int next = first + second;
              first = second;
              second = next;
      }
       t1.setText("Fibonacci Series: " + series.toString());
}
```

OUTPUT 3:37 ♥ 🗈 🛡 🔻 🖠 **FIBONOCCI** enter the number: Button Fibonacci Series: 0 1 1 2 3 5

AIM

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

PROGRAM

```
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:id="@+id/edit1"
       android:layout width="match parent"
       tools:context=".MainActivity">
       <TextView
       android:id="@+id/text1"
       android:layout width="172dp"
       android:layout_height="49dp"
       android:text="CALCULATOR"
       app:layout constraintBottom toBottomOf="parent"
       app:layout_constraintEnd_toEndOf="parent"
```

app:layout constraintVertical bias="0.071"/>

```
<TextView
android:id="@+id/text3"
android:layout_width="120dp"
android:layout height="42dp"
android:text="FRIST NUMBER"
app:layout constraintBottom toBottomOf="parent"
app:layout constraintEnd toEndOf="parent"
app:layout_constraintHorizontal_bias="0.13"
app:layout constraintVertical bias="0.217"/>
<TextView
android:id="@+id/textView7"
android:layout width="120dp"
android:layout height="42dp"
android:text="SECOND NUMBER:"
app:layout constraintBottom toBottomOf="parent"
app:layout constraintEnd toEndOf="parent"
app:layout constraintHorizontal bias="0.139"
app:layout constraintStart toStartOf="parent"
app:layout constraintTop toTopOf="parent"
app:layout_constraintVertical_bias="0.338" />
```

```
<EditText
android:id="@+id/editTextText3"
android:layout_width="170dp"
android:layout height="45dp"
android:ems="10"
android:hint="number1"
android:inputType="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="0.202"/>
<EditText
android:id="@+id/editTextText4"
android:layout width="170dp"
android:layout height="45dp"
android:ems="10"
android:hint="number2"
android:inputType="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="0.325"/>
<Button
android:id="@+id/button5"
android:layout_width="109dp"
android:layout height="63dp"
android:text="ADD"
android:onClick="add"
app:layout_constraintBottom_toBottomOf="parent"
app:layout constraintTop toTopOf="parent"
app:layout constraintVertical bias="0.559"/>
<Button
android:id="@+id/button6"
android:layout width="109dp"
android:layout height="63dp"
android:text="MUL"
android:onClick="mul"
app:layout_constraintBottom_toBottomOf="parent"
app:layout constraintEnd toEndOf="parent"/>
```

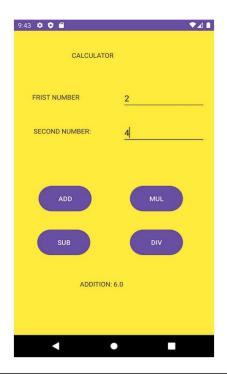
```
<Button
android:id="@+id/button7"
android:layout width="109dp"
android:layout height="63dp"
android:text="SUB"
android:onClick="sub"
app:layout constraintBottom toBottomOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout constraintVertical bias="0.718"/>
<Button
android:id="@+id/button8"
android:layout width="109dp"
android:layout height="63dp"
android:text="DIV"
android:onClick="div"
app:layout constraintBottom toBottomOf="parent"
app:layout constraintEnd toEndOf="parent"
app:layout constraintHorizontal bias="0.788"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout constraintVertical bias="0.718"/>
```

```
<TextView
       android:id="@+id/textView8"
       android:layout_width="106dp"
       android:layout height="36dp"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout_constraintVertical_bias="0.867" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.example.record2;
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;
public class MainActivity extends AppCompatActivity {
       Button b1,b2,b3,b4;
       TextView t1;
       EditText e1,e2;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
```

```
super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       t1=findViewById(R.id.textView8);
       e1=findViewById(R.id.editTextText3);
       e2=findViewById(R.id.editTextText4);
}
public void add(View v){
       t1.setText("ADDITION: ");
       Double a,b,sum;
       a=Double.parseDouble(e1.getText().toString());
       b=Double.parseDouble(e2.getText().toString());
       sum=a+b;
}
public void sub(View v){
       t1.setText("SUBSTRACTION: ");
       Double a,b,sub;
       a=Double.parseDouble(e1.getText().toString());
      b=Double.parseDouble(e2.getText().toString());
       sub=a-b;
public void mul(View v){
       t1.setText("MULTI: ");
       Double a,b,mul;
```

```
a=Double.parseDouble(e1.getText().toString());
b=Double.parseDouble(e2.getText().toString());
mul=a*b;
}

public void div(View v)
{
    t1.setText("DIVISION: ");
    Double a,b,div;
    a=Double.parseDouble(e1.getText().toString());
    b=Double.parseDouble(e2.getText().toString());
    div=a/b;
}
```



AIM

Develop a Login application. If user name is correct, then Greet the user else display an error Message.

PROGRAM

```
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">
       <TextView
       android:id="@+id/textView"
       android:layout width="123dp"
       android:layout_height="49dp"
       android:background="#EA7FA3"
       android:text="LOGIN"
```

android:textSize="20sp"

```
app:layout constraintTop toTopOf="parent"
app:layout_constraintVertical bias="0.09"/>
<TextView
android:id="@+id/textView2"
android:layout width="126dp"
android:layout height="39dp"
android:text="LOGIN"
android:textSize="20sp"
app:layout constraintBottom toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout constraintVertical bias="0.252"/>
<EditText
android:id="@+id/editTextText"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:ems="10"
android:inputType="text"
app:layout constraintBottom toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout constraintVertical bias="0.244"/>
```

```
<TextView
android:id="@+id/textView3"
android:layout_width="127dp"
android:layout height="38dp"
android:text="PASSWORD"
android:textSize="20sp"
app:layout constraintBottom toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout constraintHorizontal bias="0.052"
app:layout_constraintVertical bias="0.401" />
<EditText
android:id="@+id/editTextText2"
android:layout width="wrap content"
android:layout height="wrap content"
android:ems="10"
android:inputType="text"
app:layout constraintBottom toBottomOf="parent"
app:layout constraintEnd toEndOf="parent"
app:layout constraintVertical bias="0.395"/>
<Button
android:id="@+id/button"
```

```
android:layout width="wrap content"
       android:layout height="wrap content"
       android:onClick="butt"
       android:text="Button"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout_constraintVertical_bias="0.651" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.example.app3;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity implements OnClickListener {
       EditText e1,e2;
       Button b1;
       Intent ie;
       @Override
```

```
protected void onCreate(Bundle savedInstanceState){
              super.onCreate(savedInstanceState);
              setContentView(R.layout.activity main);
              e1=findViewById(R.id.editTextText);
              e2=findViewById(R.id.editTextText2);
              b1=findViewById(R.id.button);
       }
       @Override
       public void onClick(View v) {
              String user = e1.getText().toString();
              String pass = e2.getText().toString();
              if (user.equals("Anakin") && (pass.equals("Padme"))) {
              Toast.makeText(this, "login succesful", Toast.LENGTH_LONG).show();
              }
           else {
              Toast.makeText(this, "error", Toast.LENGTH_LONG).show();
            }
       }
}
```



AIM

Develop an app to display an image in an activity.

PROGRAM

```
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"
       tools:context=".MainActivity">
       <ImageView
       android:id="@+id/img"
       android:layout width="241dp"
       android:layout height="504dp"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:srcCompat="@drawable/mink mingle 96jd67agnge unsplash" />
       <Button
       android:id="@+id/b1"
```

```
android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="CHANGE IMAGE"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.86"/>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.example.imageview;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
public class MainActivity extends AppCompatActivity implements
View.OnClickListener {
       Button b1;
       ImageView img;
       @SuppressLint("MissingInflatedId")
       @Override
       protected void onCreate(Bundle savedInstanceState) {
              b1=(Button)findViewById(R.id.b1);
              b1.setOnClickListener(this);
              img=(ImageView)findViewById(R.id.img);
       }
       @Override
```

```
public void onClick(View view) {
    img.setImageResource(R.drawable.flower);
}
```





AIM

Develop an app to move to from one activity to another.

PROGRAM

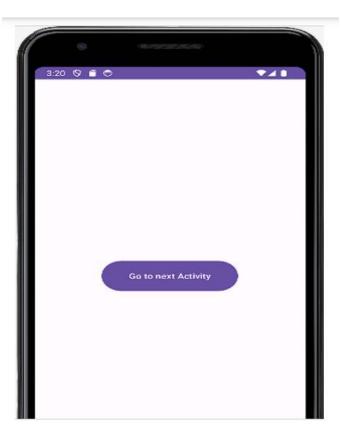
```
activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
      xmlns:android="http://schemas.android.com/apk/res/android"
       android:layout width="match parent"
       android:layout_height="match_parent"
       tools:context=".MainActivity">
       <Button
       android:id="@+id/button"
       android:layout width="197dp"
       android:layout height="66dp"
       android:text="Go to next Activity"
       android:onClick="onClick"
       app:layout constraintBottom toBottomOf="parent"
       app:layout_constraintTop_toTopOf="parent" />
```

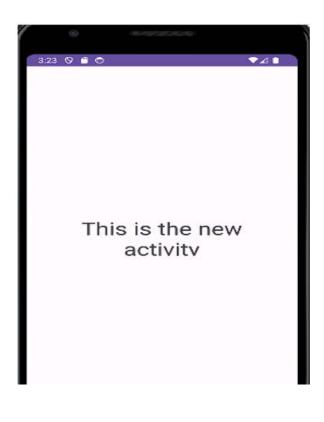
</androidx.constraintlayout.widget.ConstraintLayout>

```
MainActivity.java
package com.example.activity;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity implements
View.OnClickListener{
       Intent ie;
       Button b;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
              super.onCreate(savedInstanceState);
              setContentView(R.layout.activity main);
              b=findViewById(R.id.button);
              b.setOnClickListener(this);
        }
       @Override
       public void onClick(View view) {
              ie=new Intent(MainActivity.this, newactvty.class);
              startActivity(ie);
}
```

```
Activity newactvty.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=".newactvty">
       <TextView
       android:id="@+id/textView"
       android:layout width="261dp"
       android:layout height="73dp"
       android:text="This is the new activity"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintVertical bias="0.437"/>
</androidx.constraintlayout.widget.ConstraintLayout>
newactvty.java
package com.example.activity;
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class newactvty extends AppCompatActivity implements
View.OnClickListener {
       Intent ie1;
       TextView t1;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
              super.onCreate(savedInstanceState);
              setContentView(R.layout.activity_newactvty);
        }
       @Override
       public void onClick(View view) {
              ie1=new Intent(newactvty.this,MainActivity.class);
              startActivity(ie1);
        }
}
```





AIM

Develop an application to pass values between activities. Read 3 no.s in One activity. Pass these values to another activity display sum and average of these numbers.

PROGRAM

```
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">

<TextView

android:id="@+id/textView"</pre>
```

app:layout_constraintBottom_toBottomOf="parent"

android:layout width="158dp"

android:layout_height="57dp"

android:background="#83B8E3"

android:text="SUM OF NUMBERS"

```
app:layout constraintTop toTopOf="parent"
app:layout constraintVertical bias="0.1"/>
<EditText
android:id="@+id/editTextText"
android:layout width="wrap content"
android:layout height="wrap content"
android:ems="10"
android:hint="ENTER NUMBER1:"
android:inputType="text"
app:layout_constraintBottom_toBottomOf="parent"
app:layout constraintVertical bias="0.259"/>
<EditText
android:id="@+id/editTextText2"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:ems="10"
android:hint="ENTER NUMBER2:"
android:inputType="text"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintVertical_bias="0.419" />
```

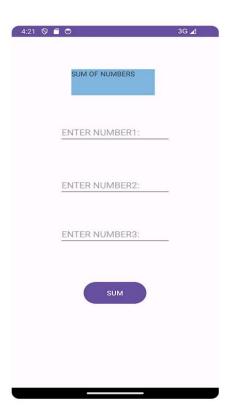
```
<EditText
       android:id="@+id/editTextText3"
       android:layout_width="wrap_content"
       android:layout height="wrap content"
       android:ems="10"
       android:hint="ENTER NUMBER3:"
       app:layout constraintEnd toEndOf="parent"
       app:layout_constraintHorizontal_bias="0.497"
       app:layout constraintVertical bias="0.567" />
       <Button
       android:id="@+id/button"
       android:layout width="119dp"
       android:layout height="55dp"
       android:text="SUM"
       android:onClick="onClick"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintVertical bias="0.748"/>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.example.app1;
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity implements
View.OnClickListener {
       EditText e1,e2,e3;
       Button b1;
       Intent intent;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
              super.onCreate(savedInstanceState);
              setContentView(R.layout.activity main);
              e1=findViewById(R.id.editTextText);
              e2=findViewById(R.id.editTextText2);
              e3=findViewById(R.id.editTextText3);
              b1=findViewById(R.id.button);
       }
       @Override
       public void onClick(View view) {
              double num1=Double.parseDouble(e1.getText().toString());
              double num2=Double.parseDouble(e2.getText().toString());
              double num3=Double.parseDouble(e3.getText().toString());
```

```
Toast.makeText(this,"Have a Good
              day"+num1,Toast.LENGTH LONG).show();
              intent.putExtra("num1:",num1);
              intent.putExtra("num2:",num2);
              intent.putExtra("num3:",num3);
              startActivity(intent);
activity main2.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
       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=".app2">
       <TextView
       android:id="@+id/textView2"
       android:layout_width="134dp"
       android:layout height="48dp"
       android:text="RESULT"
```

```
android:textSize="24sp"
android:textStyle="bold"
app:layout_constraintBottom_toBottomOf="parent"
app:layout constraintEnd toEndOf="parent"
app:layout constraintVertical bias="0.089" />
<TextView
android:id="@+id/textView3"
android:layout width="186dp"
android:layout height="65dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout constraintVertical bias="0.31"/>
<TextView
android:id="@+id/textView4"
android:layout width="184dp"
android:layout height="74dp"
app:layout constraintTop toTopOf="parent" />
<Button
android:id="@+id/button2"
android:layout width="121dp"
```

```
android:layout height="51dp"
       android:text="GO BACK"
       android:onClick="back"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintVertical bias="0.704"/>
</androidx.constraintlayout.widget.ConstraintLayout>
app2.java
package com.example.app1;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
import android.widget.Toast;
public class app2 extends AppCompatActivity {
       TextView t1,t2;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
              super.onCreate(savedInstanceState);
              setContentView(R.layout.activity app2);
              t1=findViewById(R.id.textView3);
              t2=findViewById(R.id.textView4);
              double num1 = intent.getDoubleExtra("num1", 0.0);
```



AIM

Develop an App to show the use of Implicit Intents.

PROGRAM

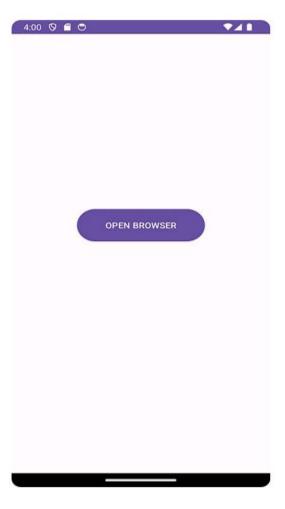
```
activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
      xmlns:android="http://schemas.android.com/apk/res/android"
       xmlns:app="http://schemas.android.com/apk/res-auto"
       xmlns:tools="http://schemas.android.com/tools"
       android:layout_width="match_parent"
       android:layout height="match parent"
       tools:context=".MainActivity">
       <Button
       android:id="@+id/button"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:onClick="butt"
       android:text="OPEN BROWSER"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.651"/>
```

MainActivity.java

```
package com.example.implicit;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
```

</androidx.constraintlayout.widget.ConstraintLayout>

```
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
    Button b1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1=findViewById(R.id.button);
    }
    public void open(View v)
    {
        Intent i=new Intent(Intent.ACTION_VIEW, Uri.parse( "https://fisat.ac.in/ ") );
        startActivity(i);
    }
}
```





AIM

Implement Options Menu , Context menu and Popup Menu to navigate between activities.

PROGRAM

OPTIONS MENU:

```
Main activity.java
package com.example.optionmenu;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
       @Override
       protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_main);
       }
       public boolean onCreateOptionsMenu(Menu menu) {
       MenuInflater inflater = getMenuInflater();
```

inflater.inflate(R.menu.menu example, menu);

```
return true;
       }
      public boolean onOptionsItemSelected(MenuItem item) {
      //respond to menu item selection
      switch (item.getItemId()) {
      case R.id.about:
      Toast.makeText(this, "You have selected About Option",
       Toast.LENGTH LONG).show();
      return true;
      case R.id.help:
       Toast.makeText(this, "You have selected Help Option",
       Toast.LENGTH LONG).show();
      return true;
       default:
      return super.onContextItemSelected(item);
menu example.xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
       <item android:id="@+id/about"
       android:title="About" />
```

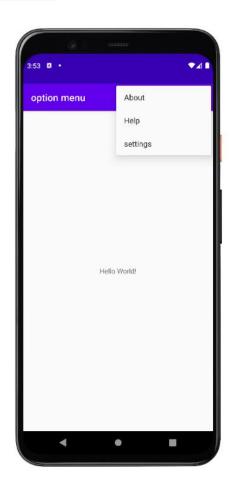
```
<item android:id="@+id/help"

android:title="Help" />

<item android:id="@+id/settings"

android:title="Help" />

</menu>
```





CONTEXT MENU:

```
Main activity.java
package com.example.optionmenu;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
       Button btn;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
      btn = (Button) findViewById(R.id.btnclick);
       registerForContextMenu(btn);
       super.onCreateContextMenu(menu, v, menuInfo); MenuInflater inflater =
       getMenuInflater();
       inflater.inflate(R.menu.menu example, menu);
       }
       public boolean onContextItemSelected(MenuItem item) {
       Toast.makeText(this, "Selected Item: " +item.getTitle(),
```

```
Toast.LENGTH_SHORT).show();
      return true;
       }
menu_example.xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
      <item android:id="@+id/upload"
      android:title="upload" />
      <item android:id="@+id/search"
      android:title="search" />
       <item android:id="@+id/share"
      android:title="share"/>
      <item android:id="@+id/bookmark"
      android:title="bookmark" />
</menu>
```



POPUP MENU:

Main_activity.xml

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.MenuItem;

import android.view.View;

import android.widget.Button;

import android.widget.PopupMenu;

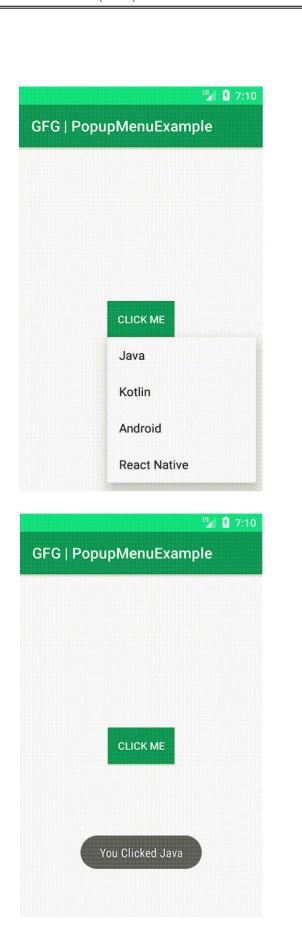
import android.widget.Toast;

```
public class MainActivity extends AppCompatActivity {
       Button button;
       @Override
      protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity main);
      button = (Button) findViewById(R.id.clickBtn);
      button.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View view) {
      PopupMenu popupMenu = new
      PopupMenu(MainActivity.this, button)
      popupMenu.getMenuInflater().inflate(R.menu.popup menu,
      popupMenu.getMenu());
      popupMenu.setOnMenuItemClickListener (new
       PopupMenu.OnMenuItemClickListener() {
       @Override
      public boolean onMenuItemClick(MenuItem menuItem) {
       Toast.makeText(MainActivity.this, "You Clicked " + menuItem.getTitle(),
       Toast.LENGTH SHORT).show();
      return true;
       });
```

```
popupMenu.show();
       }
       });
Menu_example.xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
       <item
       android:id="@+id/java"
       android:title="Java" />
       <item
       android:id="@+id/kotlin"
       android:title="Kotlin"/>
       <item
       android:id="@+id/android"
       android:title="Android" />
       <item
       android:id="@+id/react_native"
       android:title="React Native" />
</menu>
```

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">
       <Button
       android:id="@+id/clickBtn"
      android:layout width="wrap content"
       android:layout height="wrap content"
       android:background="#0F9D58"
       android:text="Click Me"
       android:textColor="#ffffff"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintLeft toLeftOf="parent"
       app:layout constraintRight toRightOf="parent"
       app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```



AIM

Write a program to implement Toggle Button.

PROGRAM

```
Main_activity.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="Toggle Button"
       android:textColor="@color/navy"
       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="0.114"/>
       <ToggleButton
       android:id="@+id/togglebtn"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="ToggleButton"
       android:textOn="ON"
       android:textOff="OFF"
       android:textSize="25sp"
       android:textColor="@color/blue"
       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="0.338"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
Activity main.java
package com.example.toggle pro;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.CompoundButton;
import android.widget.TextView;
import android.widget.Toast;
import android.widget.ToggleButton;
public class MainActivity extends AppCompatActivity {
       ToggleButton togglebtn;
       @Override
      protected void onCreate(Bundle savedInstanceState) {
              super.onCreate(savedInstanceState);
              setContentView(R.layout.activity main);
              togglebtn = (ToggleButton) findViewById(R.id.togglebtn);
             togglebtn.setOnCheckedChangeListener(new
              CompoundButton.OnCheckedChangeListener() {
              @Override
             public void on Checked Changed (Compound Button button View, boolean
isChecked) {
             if(isChecked){
              Toast.makeText(getApplicationContext(),"Toggle
              ON", Toast. LENGTH LONG). show();
```

```
else{
                                                                                                                                                                                To ast. make Text (get Application Context (), "Toggle" and the property of 
                                                                                                                                                                              OFF",Toast.LENGTH_LONG).show();
                                                                                                                                                                                  });
OUTPUT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12:45 🛇 🖺 😊
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Toggle Button
                                                                                                                                          Toggle Button
                                                                                                                                                                                                                     OFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ON
                                                                                                                                                                                                            Toggle OFF
```

AIM

Create a database application using SQLite and perform INSERT, DELETE, UPDATE, and SELECT operations.

PROGRAM

```
activity_main.xml
import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.app.AlertDialog.Builder;
public class MainActivity extends AppCompatActivity implements
View.OnClickListener {
       EditText rno;
       EditText name;
       EditText mark;
       Button btnAdd,btnDelete,btnModify,btnView,btnViewAll;
       SQLiteDatabase db;
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity main);
rno=(EditText)findViewById(R.id.edtrollno);
name=(EditText)findViewById(R.id.edtname);
mark=(EditText)findViewById(R.id.edtMark);
btnAdd=(Button)findViewById(R.id.btnadd);
btnDelete=(Button)findViewById(R.id.btndelete);
btnModify=(Button)findViewById(R.id.btnmodify);
btnView=(Button)findViewById(R.id.btnview);
btnViewAll=(Button)findViewById(R.id.btnviewall);
btnAdd.setOnClickListener(this);
btnDelete.setOnClickListener(this);
btnModify.setOnClickListener(this);
btnView.setOnClickListener(this);
btnViewAll.setOnClickListener(this);
db=openOrCreateDatabase("StudentDB", Context.MODE PRIVATE, null);
db.execSQL("CREATE TABLE IF NOT EXISTS student(rollno
VARCHAR,name VARCHAR,marks VARCHAR);");
}
@Override
public void onClick(View view) {
```

```
if(view==btnAdd){
if(rno.getText().toString().trim().length()==0||
name.getText().toString().trim().length()==0||
mark.getText().toString().trim().length()==0){
showMessage("Error", "Please enter all values");
return;
db.execSQL("INSERT INTO student
VALUES(""+rno.getText()+"",""+name.getText()+
"",""+mark.getText()+"");");
showMessage("Success", "Record added");
clearText();
}
if(view==btnDelete){
if(rno.getText().toString().trim().length()==0){
showMessage("Error", "Please enter Roll no");
return;
}
Cursor c=db.rawQuery("SELECT * FROM student WHERE
rollno=""+rno.getText()+""", null);
if(c.moveToFirst()){
db.execSQL("DELETE FROM student WHERE
rollno='"+rno.getText()+"");
```

```
showMessage("Success", "Record Deleted");
}
else{
showMessage("Error", "Invalid Roll no");
}
clearText();
c.close();
if(view==btnModify){
if(rno.getText().toString().trim().length()==0){
showMessage("Error", "Please enter Roll no");
return;
}
Cursor c=db.rawQuery("SELECT * FROM student WHERE
rollno='"+rno.getText()+"", null);
if(c.moveToFirst()){
db.execSQL("UPDATE student SET
name=""+name.getText()+"",marks=""+mark.getText()+
"" WHERE rollno=""+rno.getText()+""");
showMessage("Success", "Record Modified");
}
else{
showMessage("Error", "Invalid Roll no");
```

```
clearText();
c.close();
}
if(view==btnView) {
if(rno.getText().toString().trim().length()==0) {
showMessage("Error", "Please enter Roll no");
return;
Cursor c=db.rawQuery("SELECT * FROM student WHERE
rollno='"+rno.getText()+"", null);
if(c.moveToFirst()){
name.setText(c.getString(1));
mark.setText(c.getString(2));
}
else {
showMessage("Error", "Invalid Roll no");
clearText();
c.close();
if(view==btnViewAll) {
Cursor c=db.rawQuery("SELECT * FROM student", null);
if(c.getCount()==0) {
```

```
return;
StringBuilder buffer=new StringBuilder();
while(c.moveToNext()) {
buffer.append("Roll No: ").append(c.getString(0)).append("\n");
buffer.append("Name: ").append(c.getString(1)).append("\n");
buffer.append("Marks: ").append(c.getString(2)).append("\n\n");
c.close();
showMessage("Student Details", buffer.toString());
public void showMessage(String title,String message) {
Builder builder=new Builder(this);
builder.setCancelable(true);
builder.setTitle(title);
builder.setMessage(message);
builder.show();
}
public void clearText() {
rno.setText("");
name.setText("");
mark.setText("");
```

```
rno.requestFocus();
       }
}
Strings.xml
<resources>
<string name="app_name">dbms</string>
<string name="rollno" />
<string name="rno" />
<string name="name" />
<string name="mark" />
<string name="studentmark" />
<string name="add" />
<string name="delete" />
<string name="view" />
<string name="viewall" />
</resources>
MainActivity.java
package com.example.dbms;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
```

```
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.app.AlertDialog.Builder;
public class MainActivity extends AppCompatActivity implements
View.OnClickListener {
       EditText rno;
       EditText name;
       EditText mark;
       Button btnAdd,btnDelete,btnModify,btnView,btnViewAll;
       SQLiteDatabase db;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       rno=(EditText)findViewById(R.id.edtrollno);
       name=(EditText)findViewById(R.id.edtname);
       mark=(EditText)findViewById(R.id.edtMark);
       btnAdd=(Button)findViewById(R.id.btnadd);
       btnDelete=(Button)findViewById(R.id.btndelete);
       btnModify=(Button)findViewById(R.id.btnmodify);
       btnView=(Button)findViewById(R.id.btnview);
```

```
btnViewAll=(Button)findViewById(R.id.btnviewall);
btnAdd.setOnClickListener(this);
btnDelete.setOnClickListener(this);
btnModify.setOnClickListener(this);
btnView.setOnClickListener(this);
btnViewAll.setOnClickListener(this);
db=openOrCreateDatabase("StudentDB", Context.MODE PRIVATE, null);
db.execSQL("CREATE TABLE IF NOT EXISTS student(rollno
VARCHAR,name VARCHAR,marks VARCHAR);");
}
@Override
public void onClick(View view) {
if(view==btnAdd) {
if(rno.getText().toString().trim().length()==0||
name.getText().toString().trim().length()==0||
mark.getText().toString().trim().length()==0) {
showMessage("Error", "Please enter all values");
return;
}
db.execSQL("INSERT INTO student
VALUES(""+rno.getText()+"",""+name.getText()+
"",""+mark.getText()+"");");
showMessage("Success", "Record added");
clearText();
```

```
if(view==btnDelete) {
if(rno.getText().toString().trim().length()==0) {
showMessage("Error", "Please enter Roll no");
return;
Cursor c=db.rawQuery("SELECT * FROM student WHERE
rollno='"+rno.getText()+"", null);
if(c.moveToFirst()) {
db.execSQL("DELETE FROM student WHERE
rollno=""+rno.getText()+""");
showMessage("Success", "Record Deleted");
}
else {
showMessage("Error", "Invalid Roll no");
clearText();
c.close();
if(view==btnModify) {
if(rno.getText().toString().trim().length()==0) {
show Message ("Error", "Please \ enter \ Roll \ no");
return;
```

```
Cursor c=db.rawQuery("SELECT * FROM student WHERE
rollno=""+rno.getText()+""", null);
if(c.moveToFirst()) {
db.execSQL("UPDATE student SET
name=""+name.getText()+"",marks=""+mark.getText()+
"" WHERE rollno=""+rno.getText()+""");
showMessage("Success", "Record Modified");
}
else {
showMessage("Error", "Invalid Roll no");
}
clearText();
c.close();
if(view==btnView) {
if(rno.getText().toString().trim().length()==0) {
showMessage("Error", "Please enter Roll no");
return;
}
Cursor c=db.rawQuery("SELECT * FROM student WHERE
rollno='"+rno.getText()+"", null);
if(c.moveToFirst()) {
name.setText(c.getString(1));
mark.setText(c.getString(2));
```

```
else {
showMessage("Error", "Invalid Roll no");
clearText();
c.close();
if(view==btnViewAll) {
Cursor c=db.rawQuery("SELECT * FROM student", null);
if(c.getCount()==0) {
return;
StringBuilder buffer=new StringBuilder();
while(c.moveToNext()) {
buffer.append("Roll No: ").append(c.getString(0)).append("\n");
buffer.append("Name: ").append(c.getString(1)).append("\n");
buffer.append("Marks: ").append(c.getString(2)).append("\n\n");
}
c.close();
showMessage("Student Details", buffer.toString());
}
public void showMessage(String title,String message) {
Builder builder=new Builder(this);
```

```
builder.setCancelable(true);
       builder.setTitle(title);
       builder.setMessage(message);
       builder.show();
       }
       public void clearText() {
       rno.setText("");
       name.setText("");
       mark.setText("");
       rno.requestFocus();
       }
}
```

OUTPUT 3:43 🛇 🗂 😊 Roll No ₹41 Name Mark Success Record added 3:44 🛇 🖺 🗇 Name Mark Student Details Roll No: 3 Name: Roopali Marks: 37 Roll No: 1 Name: Athirani Marks: 49 Roll No: 2 Name: Krish Marks: 50 Roll No: 4 Name: Miana Marks: 39

EXPERIMENT 12

AIM

Develop an option menu with 2 options to do the following in two different activities. To greet the user and To add two numbers.

Note: Get the Username and numbers from user

PROGRAM

Menuu.xml

MainActivity.java

import android.view.View;

```
package com.example.option2activity;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
```

```
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity implements
View.OnClickListener {
       TextView t1;
       Intent ie;
       @Override
       public boolean onCreateOptionsMenu(Menu menu) {
       MenuInflater inflater=getMenuInflater();
       inflater.inflate(R.menu.menuu,menu);
       return true;
       @Override
       public boolean onOptionsItemSelected(@NonNull MenuItem item) {
       int iditem= item.getItemId();
       if(iditem==R.id.greet)
       ie=new Intent(MainActivity.this,one.class);
       startActivity(ie);
       return true;
       if(iditem==R.id.add)
       ie=new Intent(MainActivity.this,two.class);
```

```
startActivity(ie);
       return true;
       return true;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_main);
       @Override
       public void onClick(View v) {
}
activity_one.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=".one">
```

```
<TextView
android:id="@+id/textView2"
android:layout width="230dp"
android:layout height="54dp"
android:text="LOGIN"
android:textAlignment="center"
android:textSize="25dp"
app:layout constraintBottom toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout constraintStart toStartOf="parent"
app:layout constraintTop toTopOf="parent"
app:layout constraintVertical bias="0.1"/>
<EditText
android:id="@+id/editTextText"
android:layout width="294dp"
android:layout height="86dp"
android:ems="10"
android:inputType="text"
android:hint="Enter username"
android:textAlignment="center"
app:layout constraintBottom toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.495"
app:layout constraintStart toStartOf="parent"
```

```
app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.409"/>
       <Button
       android:id="@+id/button"
       android:layout width="144dp"
       android:layout height="67dp"
       android:text="submit"
       app:layout constraintBottom toBottomOf="parent"
       app:layout_constraintEnd_toEndOf="parent"
       app:layout constraintHorizontal bias="0.468"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.682"/>
</androidx.constraintlayout.widget.ConstraintLayout>
One.java
package com.example.option2activity;
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 one extends AppCompatActivity implements View.OnClickListener {
```

```
EditText e1;
Button b1;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_one);
e1=findViewById(R.id.editTextText);
b1=findViewById(R.id.button);
@Override
public void onClick(View v) {
String user=e1.getText().toString();
if(user.equals("Athirani"))
{
Toast.makeText(this,"login succesfull",Toast.LENGTH_LONG).show();
else
Toast.makeText(this,"error",Toast.LENGTH LONG).show();
```

```
activity two.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=".two">
       <TextView
       android:id="@+id/textView3"
       android:layout width="242dp"
       android:layout height="59dp"
       android:text="Addition of two numbers"
       android:textAlignment="center"
       android:textSize="20dp"
       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="0.078"/>
       <EditText
```

```
android:id="@+id/editTextText2"
android:layout width="wrap content"
android:layout height="wrap content"
android:ems="10"
android:inputType="text"
android:hint="Enter the 1st number"
tools:layout editor absoluteX="101dp"
tools:layout editor absoluteY="223dp" />
<EditText
android:id="@+id/editTextText3"
android:layout width="wrap content"
android:layout height="wrap content"
android:ems="10"
android:inputType="text"
android:text="Enter the second number"
tools:layout editor absoluteX="101dp"
tools:layout editor absoluteY="329dp" />
<Button
android:id="@+id/button2"
android:layout width="151dp"
android:layout height="66dp"
android:text="ADD"
android:onClick="add"
app:layout constraintBottom toBottomOf="parent"
```

```
app:layout constraintEnd toEndOf="parent"
       app:layout constraintHorizontal bias="0.446"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.723"/>
</androidx.constraintlayout.widget.ConstraintLayout>
two.java
package com.example.option2activity;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class two extends AppCompatActivity {
       Button b1;
       EditText e1,e2;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity two);
       e1=findViewById(R.id.editTextText2);
       e2=findViewById(R.id.editTextText3);
       }
```

```
public void add(View v)
       Double a,b,sum;
       a=Double.parseDouble(e1.getText().toString());
       b=Double.parseDouble(e2.getText().toString());
       sum=a+b;
OUTPUT
                      11:18 🛇 🖇 🔿
                       option2activity
                                            greet
                                            add
```

