

Program

Aim: Program to Implement Adapters and perform exception handling

XML Code:

```
<?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"

    android:background="@color/purple_500"

    tools:context=".MainActivity">

<TextView

    android:id="@+id/txt1"

    android:layout_width="match_parent"

    android:padding="20dp"

    android:textAlignment="center"

    android:layout_marginHorizontal="10dp"

    android:layout_height="wrap_content"

    android:textSize="30sp"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    android:layout_marginTop="100dp"

    android:text="EXCEPTION" />

<EditText
```

```
android:id="@+id/edt1"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:padding="20dp"
android:layout_marginHorizontal="20dp"
android:hint="Enter first number"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintTop_toBottomOf="@+id/txt1"
android:layout_marginTop="100dp"/>
```

<EditText

```
android:id="@+id/edt2"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:padding="20dp"
android:hint="Enter second number"
android:layout_marginHorizontal="20dp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintTop_toBottomOf="@+id/edt1"
android:layout_marginTop="10dp"/>
```

<Button

```
android:id="@+id/btn1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Divide"
app:layout_constraintTop_toBottomOf="@+id/edt2"
```

```

        android:layout_marginTop="30dp"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintEnd_toEndOf="parent"/>
<TextView

        android:id="@+id/txt2"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginTop="20dp"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/btn1"/>
</androidx.constraintlayout.widget.ConstraintLayout>

```

Java Code:

```

package com.example.exceptionhandling;

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 {

    EditText e1, e2;

    Button b1;

    TextView t1;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

```

```

setContentView(R.layout.activity_main);

e1 = findViewById(R.id.edt1);
e2 = findViewById(R.id.edt2);
b1 = findViewById(R.id.btn1);
t1 = findViewById(R.id.txt2);
b1.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        String a, b;

        int c, d;

        a = e1.getText().toString();
        b = e2.getText().toString();

        try{

            int res = Integer.parseInt(a)/Integer.parseInt(b);

            t1.setText(res);

        }catch(Exception e){

            t1.setText(e.toString());

        }

    }

});
}
}

```

Output:

