

Program 6. Create an application to demonstrate the use of Intents to communicate between different activities

Activity_main.xml

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

<androidx.constraintlayout.widget.ConstraintLayout

    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"    android:layout_height="match_parent"
    tools:context=".MainActivity">

    TextView    android:layout_width="wrap_content"
    android:layout_height="wrap_content"    android:layout_marginEnd="8dp"
    android:layout_marginStart="8dp"    android:layout_marginTop="8dp"
    android:text="First Activity" app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.454"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.06" />

    <Button

        android:id="@+id/button"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginEnd="8dp"

        android:layout_marginStart="8dp"

        android:layout_marginTop="392dp"

        android:onClick="callSecondActivity"

        android:text="Call second activity"

        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```

```

<Button
    android:id="@+id/button3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:onClick="show"
    android:text="implicit intent"
    tools:layout_editor_absoluteX="135dp"
    tools:layout_editor_absoluteY="204dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Activity main2.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=".MainActivity2">

    <Button
        android:id="@+id/button2"
        android:layout_width="263dp"
        android:layout_height="53dp"
        android:text="go back to 1st activity"
        android:onClick="callFirstActivity"
        tools:layout_editor_absoluteX="74dp"
        tools:layout_editor_absoluteY="219dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Main activity.java

```
public class MainActivity extends AppCompatActivity {

    Button button;

    @Override

        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);

            setContentView(R.layout.activity_main);

            button=findViewById(R.id.button);

            //button.setOnClickListener(this);

        }

        public void show(View view){

            Intent intent = new Intent(Intent.ACTION_VIEW);
            intent.setData(Uri.parse("https://www.fisat.ac.in"));

            startActivity(intent);

        }    public void callSecondActivity(View view){

            Intent i=new Intent(getApplicationContext(),MainActivity2.class);

            startActivity(i);

        }

    }

}
```

Main activity2.java

```
package com.mca.intentimex52;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;
```

```

public class MainActivity2 extends AppCompatActivity {

    Button button;

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

        setContentView(R.layout.activity_main2);

        Bundle extras = getIntent().getExtras();

        button=findViewById(R.id.button);

    }

    public void callFirstActivity(View view){

        Intent i=new Intent(getApplicationContext(),MainActivity.class);

        startActivity(i);

    }

}

```

Output:

