MOBILE APPLICATION DEVELOPMENT LAB   15-12-2021

PROGRAM- Explicit and implicit intents to communicate between different activities

MainActivity.java:

```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);

    }

}
```

Activity_main.xml:

```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" />
```

```xml
    <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>
```

Main_Activity2.java:

```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);

    }

}
```

Activity_main2.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
```

```xml
    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>
```

OUTPUT: