

Practical No. 4

Aim: Write an Android program to demonstrate the concept of Intents.

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout android:layout_height="match_parent"
    android:layout_width="match_parent"
    xmlns:android="http://schemas.android.com/apk/res/android">

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/edtValue"
        android:textSize="25dp"
        android:layout_centerHorizontal="true"
        android:hint="Enter Value"/>

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btnSubmit"
        android:text="Submit"
        android:layout_centerInParent="true"
        android:textSize="25dp"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/tvOutput"
        android:textSize="25dp"
        android:layout_below="@id/btnSubmit"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="100dp"/>

</RelativeLayout>
```

activity_main2.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout android:layout_height="match_parent"
    android:layout_width="match_parent"
    xmlns:android="http://schemas.android.com/apk/res/android" >

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/edtValue"
        android:textSize="25dp"
        android:layout_centerHorizontal="true"
        android:hint="Enter Value"/>
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/btnReturn"
    android:text="Return"
    android:layout_centerInParent="true"
    android:textSize="25dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/tvOutput"
    android:textSize="25dp"
    android:layout_below="@id/btnReturn"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="100dp"/>
```

```
</RelativeLayout>
```

MainActivity.kt

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

```
import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.TextView
```

```
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val edtValue = findViewById<EditText>(R.id.edtValue)
        val btnSubmit = findViewById<Button>(R.id.btnSubmit)
        val tvOutput = findViewById<TextView>(R.id.tvOutput)

        btnSubmit.setOnClickListener {
            val intent = Intent(this, MainActivity2::class.java)
            intent.putExtra("name", edtValue.text.toString())
            startActivity(intent)
        }

        tvOutput.text = intent.getStringExtra("name")
    }
}
```

MainActivity2.kt

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

```
import android.content.Intent
```

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

```
import android.os.Bundle
```

```
import android.widget.Button
```

```
import android.widget.EditText
```

```
import android.widget.TextView
```

```
class MainActivity2 : AppCompatActivity() {
```

```
    override fun onCreate(savedInstanceState: Bundle?) {
```

```
        super.onCreate(savedInstanceState)
```

```
        setContentView(R.layout.activity_main2)
```

```
        val edtValue = findViewById<EditText>(R.id.edtValue)
```

```
        val btnReturn = findViewById<Button>(R.id.btnReturn)
```

```
        val tvOutput = findViewById<TextView>(R.id.tvOutput)
```

```
        tvOutput.text = intent.getStringExtra("name")
```

```
        btnReturn.setOnClickListener {
```

```
            val intent = Intent(this, MainActivity::class.java)
```

```
            intent.putExtra("name", edtValue.text.toString())
```

```
            startActivity(intent)
```

```
        }
```

```
    }
```

```
}
```

Output

