## **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

