

# Mobile Application Development in Android using Kotlin

Program : 32 - 37

- **Activity\_main.xml :**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp">

    <!-- Program 32 -->
    <TextView
        android:id="@+id/txtUniversity"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/university"
        android:textSize="18sp" />

    <!-- Program 33 -->
    <TextView
        android:id="@+id/txtHello"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/hello_world"
        android:textSize="18sp" />

    <!-- Program 34 -->
    <TextView
        android:id="@+id/txtName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="18sp" />

    <!-- Program 36 -->
    <EditText
        android:id="@+id/edtString1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter First String" />

    <EditText
        android:id="@+id/edtString2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

```
    android:hint="Enter Second String" />

<Button
    android:id="@+id	btnMerge"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Merge Strings" />

<!-- Program 35 -->
<Button
    android:id="@+id	btnToast"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Show University Toast" />

<!-- Program 37 -->
<Button
    android:id="@+id	btn1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Button 1" />

<Button
    android:id="@+id	btn2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Button 2" />

<TextView
    android:id="@+id	txtResult"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textSize="18sp" />

</LinearLayout>
```

- MainActivity.kt

```
package com.example.program_32_37

import android.os.Bundle
import android.widget.*
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main)

        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v,
        insets ->
            val systemBars =
            insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
            systemBars.bottom)
            insets
        }

        //Program 34: Display Name using Kotlin
        val txtName = findViewById<TextView>(R.id.txtName)
        txtName.text = "My Name is Harshal"

        //Program 36: Merge Two Strings
        val edt1 = findViewById<EditText>(R.id.edtString1)
        val edt2 = findViewById<EditText>(R.id.edtString2)
        val btnMerge = findViewById<Button>(R.id.btnMerge)

        btnMerge.setOnClickListener {
            val mergedText = edt1.text.toString() + " " + edt2.text.toString()
            Toast.makeText(this, mergedText, Toast.LENGTH_SHORT).show()
        }

        //Program 35: Toast "Saurashtra University"
        val btnToast = findViewById<Button>(R.id.btnToast)
        btnToast.setOnClickListener {
            Toast.makeText(
                this,
                getString(R.string.university),
                Toast.LENGTH_SHORT
            ).show()
        }
    }
}
```

```
}

//Program 37: Button Click Display
val btn1 = findViewById<Button>(R.id.btn1)
val btn2 = findViewById<Button>(R.id.btn2)
val txtResult = findViewById<TextView>(R.id.txtResult)

btn1.setOnClickListener {
    txtResult.text = "Button 1 is Clicked"
}

btn2.setOnClickListener {
    txtResult.text = "Button 2 is Clicked"
}
}
```

- `Strings.xml`

```
<resources>
    <string name="app_name">Program_32_37</string>
    <string name="hello_world">Hello World</string>
    <string name="university">Saurashtra University</string>
</resources>
```

## OUTPUT

