Mobile Application Development in Android using Kotlin

Program : 38 - 39

- **Activity_main.xml :**

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

    <LinearLayout
        android:id="@+id/main"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="16dp">

        <!-- LOGIN -->
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Login"
            android:textSize="20sp"
            android:textStyle="bold" />

        <EditText
            android:id="@+id/etUsername"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Username" />

        <EditText
            android:id="@+id/etPassword"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Password"
            android:inputType="textPassword" />

        <Button
            android:id="@+id/btnLogin"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Login" />

        <!-- REGISTRATION -->
        <LinearLayout
            android:id="@+id/registrationLayout"
```

```xml
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:orientation="vertical"
    android:visibility="gone">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Registration"
        android:textSize="20sp"
        android:textStyle="bold" />

    <EditText
        android:id="@+id/etName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Name" />

    <RadioGroup
        android:id="@+id/rgGender"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content">

        <RadioButton
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Male" />

        <RadioButton
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Female" />
    </RadioGroup>

    <EditText
        android:id="@+id/etMobile"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Mobile Number"
        android:inputType="phone" />

    <EditText
        android:id="@+id/etAddress"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Address" />

    <CheckBox
```

```xml
            android:id="@+id/cbReading"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Reading" />

        <CheckBox
            android:id="@+id/cbMusic"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Music" />

        <CheckBox
            android:id="@+id/cbSports"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Sports" />

        <Button
            android:id="@+id/btnSubmit"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Submit" />

        <TextView
            android:id="@+id/tvResult"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="10dp"
            android:textSize="16sp" />
    </LinearLayout>

    </LinearLayout>
</ScrollView>
```

- MainActivity.kt

```kotlin
package com.example.program_38_39

import android.os.Bundle
import android.view.View
import android.widget.*
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {

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

        val username = findViewById<EditText>(R.id.etUsername)
        val password = findViewById<EditText>(R.id.etPassword)
        val loginBtn = findViewById<Button>(R.id.btnLogin)
        val regLayout = findViewById<LinearLayout>(R.id.registrationLayout)

        loginBtn.setOnClickListener {
            if (username.text.toString() == "admin" &&
                password.text.toString() == "admin") {

                Toast.makeText(this, "Login Successful",
Toast.LENGTH_SHORT).show()
                regLayout.visibility = View.VISIBLE
            } else {
                Toast.makeText(this, "Invalid Username or Password",
Toast.LENGTH_SHORT).show()
            }
        }

        val name = findViewById<EditText>(R.id.etName)
        val mobile = findViewById<EditText>(R.id.etMobile)
        val address = findViewById<EditText>(R.id.etAddress)
        val genderGroup = findViewById<RadioGroup>(R.id.rgGender)
        val reading = findViewById<CheckBox>(R.id.cbReading)
        val music = findViewById<CheckBox>(R.id.cbMusic)
        val sports = findViewById<CheckBox>(R.id.cbSports)
        val submit = findViewById<Button>(R.id.btnSubmit)
        val result = findViewById<TextView>(R.id.tvResult)

        submit.setOnClickListener {
            val genderId = genderGroup.checkedRadioButtonId
            val gender = if (genderId != -1)
                findViewById<RadioButton>(genderId).text
            else "Not Selected"
```

```
        val hobbies = StringBuilder()
        if (reading.isChecked) hobbies.append("Reading ")
        if (music.isChecked) hobbies.append("Music ")
        if (sports.isChecked) hobbies.append("Sports ")

        result.text = """
            Name: ${name.text}
            Gender: $gender
            Mobile: ${mobile.text}
            Address: ${address.text}
            Hobbies: $hobbies
        """.trimIndent()
        }
    }
}
```

OUTPUT