## PRACTICAL 4

### **CODE**

# MainActivity.kt

```
package com.example.sharedpreference
import android.content.SharedPreferences
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
class MainActivity : AppCompatActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity main)
    val etName = findViewById<EditText>(R.id.name)
    val etRollNo = findViewById<EditText>(R.id.rollno)
    val save = findViewById<Button>(R.id.saveBtn)
    val get = findViewById<Button>(R.id.getBtn)
    val sharedPref = getSharedPreferences("addName", MODE PRIVATE)
    val edit = sharedPref.edit()
    save.setOnClickListener {
       edit.putString("name", etName.text.toString())
       edit.putString("rollno", etRollNo.text.toString())
       edit.apply() // apply() is preferred over commit() for asynchronous saving
      Toast.makeText(this, "Data saved", Toast.LENGTH SHORT).show()
    }
    get.setOnClickListener {
       val myName = sharedPref.getString("name", "default value")
       val myRoll = sharedPref.getString("rollno", "default value")
       Toast.makeText(this, "Name: $myName - Roll No: $myRoll",
Toast.LENGTH SHORT).show()
```

## activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  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=".MainActivity">
  <TextView
    android:id="@+id/textView"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout centerHorizontal="true"
    android:layout marginTop="50dp"
    android:text="Shared Preferences"
    android:textSize="20sp"
    android:textStyle="bold" />
  <EditText
    android:id="@+id/name"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout marginTop="100dp"
    android:layout marginStart="20dp"
    android:layout marginEnd="20dp"
    android:hint="Name"
    android:inputType="textPersonName" />
  <EditText
    android:id="@+id/rollno"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout below="@id/name"
    android:layout marginTop="20dp"
    android:layout marginStart="20dp"
    android:layout marginEnd="20dp"
    android:hint="Roll No:"
    android:inputType="textPersonName" />
  <Button
    android:id="@+id/saveBtn"
```

```
android:layout width="wrap content"
     android:layout height="wrap content"
     android:layout below="@id/rollno"
     android:layout marginTop="30dp"
     android:layout marginStart="20dp"
    android:text="SAVE" />
  <Button
     android:id="@+id/getBtn"
     android:layout width="wrap content"
     android:layout height="wrap content"
     android:layout below="@id/rollno"
     android:layout marginTop="30dp"
     android:layout marginEnd="20dp"
     android:layout alignParentEnd="true"
     android:text="GET" />
</RelativeLayout>
build.gradle.kts(:app)
plugins {
  alias(libs.plugins.android.application)
  alias(libs.plugins.kotlin.android)
}
android {
  namespace = "com.example.sharedpreference"
  compileSdk = 35
  defaultConfig {
     applicationId = "com.example.sharedpreference"
    minSdk = 24
    targetSdk = 34
     versionCode = 1
     versionName = "1.0"
    testInstrumentationRunner = "androidx.test.runner.AndroidJUnitRunner"
  }
  buildTypes {
    release {
       isMinifyEnabled = false
       proguardFiles(
```

#### ANDROID APPLICATION DEVELOPMENT

```
getDefaultProguardFile("proguard-android-optimize.txt"),
          "proguard-rules.pro"
       )
    }
  compileOptions {
     sourceCompatibility = JavaVersion. VERSION 11
     targetCompatibility = JavaVersion. VERSION 11
  kotlinOptions {
    jvmTarget = "11"
dependencies {
  implementation(libs.androidx.core.ktx)
  implementation(libs.androidx.appcompat)
  implementation(libs.material)
  implementation(libs.androidx.activity)
  implementation(libs.androidx.constraintlayout)
  testImplementation(libs.junit)
  androidTestImplementation(libs.androidx.junit)
  androidTestImplementation(libs.androidx.espresso.core)
}
```

### **OUTPUT**





