

## Android with Shared Preferences

### activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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"
    android:background="@color/purple_200">

    <TableLayout
        android:layout_width="368dp"
        android:layout_height="495dp"
        android:layout_marginBottom="8dp"
        android:layout_marginEnd="8dp"
        android:layout_marginStart="8dp"
        android:layout_marginTop="8dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <TableRow>

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_column="0"
                android:layout_marginLeft="10sp"
                android:layout_marginStart="10sp"
                android:text="Enter Your Id"
                android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium" />

            <EditText
                android:id="@+id/editId"
                android:layout_width="201dp"
                android:layout_height="wrap_content"
                android:layout_column="1"
                android:layout_marginLeft="50sp"
                android:layout_marginStart="50sp"
                android:hint="ID"
                android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium" />
        </TableRow>

        <TableRow>

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_column="0"
```

```

        android:layout_marginLeft="10sp"
        android:layout_marginStart="10sp"
        android:text="Enter Your Name"
        android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium" />

<EditText
    android:id="@+id/editName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_column="1"
    android:layout_marginLeft="50sp"
    android:layout_marginStart="50sp"
    android:hint="Name"
    android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium" />
</TableRow>

<TableRow android:layout_marginTop="60dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_column="0"
        android:layout_marginLeft="10sp"
        android:layout_marginStart="10sp"
        android:text="Your Id"
        android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium" />

    <TextView
        android:id="@+id/textViewShowId"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_column="1"
        android:layout_marginLeft="50sp"
        android:layout_marginStart="50sp"
        android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium" />
</TableRow>

<TableRow android:layout_marginTop="20dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_column="0"
        android:layout_marginLeft="10sp"
        android:layout_marginStart="10sp"
        android:text="Your Name"
        android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium" />

    <TextView
        android:id="@+id/textViewShowName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_column="1"
        android:layout_marginLeft="50sp"
        android:layout_marginStart="50sp"

```

```

        android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium" />
    </TableRow>
</TableLayout>

<LinearLayout
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginEnd="8dp"
    android:layout_marginBottom="16dp"
    android:gravity="center"
    android:orientation="vertical"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent">

    <Button
        android:id="@+id/save"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Save"
        android:textColor="@color/teal_200" />

    <Button
        android:id="@+id/view"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="View After save the Data"
        android:textColor="@color/teal_200" />

    <Button
        android:id="@+id/clear"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Clear"
        android:textColor="@color/teal_200" />
</LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>

```

## MainActivity.kt

```
import android.content.Context
import android.content.SharedPreferences
import android.os.Bundle
import android.view.View
import android.widget.Button
import android.widget.EditText
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {

    private val sharedPrefFile = "kotlinsharedpreference"

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

        val inputId = findViewById<EditText>(R.id.editId)
        val inputName = findViewById<EditText>(R.id.editName)
        val outputId = findViewById<TextView>(R.id.textViewShowId)
        val outputName = findViewById<TextView>(R.id.textViewShowName)

        val btnSave = findViewById<Button>(R.id.save)
        val btnView = findViewById<Button>(R.id.view)
        val btnClear = findViewById<Button>(R.id.clear)
        val sharedPreferences: SharedPreferences =
            this.getSharedPreferences(sharedPrefFile, Context.MODE_PRIVATE)
        btnSave.setOnClickListener(View.OnClickListener {
            val id: Int = Integer.parseInt(inputId.text.toString())
            val name: String = inputName.text.toString()
            val editor: SharedPreferences.Editor = sharedPreferences.edit()
            editor.putInt("id_key", id)
            editor.putString("name_key", name)
            editor.apply()
            editor.commit()
        })
        btnView.setOnClickListener {
            val sharedIdValue = sharedPreferences.getInt("id_key", 0)
            val sharedNameValue = sharedPreferences.getString("name_key", "defaultname")
            if (sharedIdValue.equals(0) && sharedNameValue.equals("defaultname")) {
                outputName.setText("default name: ${sharedNameValue}").toString()
                outputId.setText("default id: ${sharedIdValue.toString()}")
            } else {
                outputName.setText(sharedNameValue).toString()
                outputId.setText(sharedIdValue.toString())
            }
        }
        btnClear.setOnClickListener(View.OnClickListener {
            val editor = sharedPreferences.edit()
            editor.clear()
            editor.apply()
        })
    }
}
```

```
        outputName.setText("").toString()
        outputId.setText("").toString()
    })
}
```