**App 6: Develop an Android app to demonstrate name-value Data Persistence using SharedPreferences class.**

**MainActivity.java:**

package com.example.sharedprefrance;

import androidx.appcompat.app.AppCompatActivity;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity

{

EditText name,RollNo,Class;

@Override

protected void onPause()

{

super.onPause();

SharedPreferences sharedPreferences=getSharedPreferences("myfile",MODE\_PRIVATE);

SharedPreferences.Editor myedit=sharedPreferences.edit();

myedit.putString("name",name.getText().toString());

myedit.putString("Roll no",RollNo.getText().toString());

myedit.putString("Class",Class.getText().toString());

myedit.apply();

}

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

name=findViewById(R.id.name\_tv);

RollNo=findViewById(R.id.roll\_tv);

Class=findViewById(R.id.class\_tv);

}

@Override

protected void onResume()

{

super.onResume();

SharedPreferences sh=getSharedPreferences("myfile",MODE\_PRIVATE);

String s1=sh.getString("name","");

String s2=sh.getString("Roll no","");

String s3=sh.getString("Class","");

name.setText(s1);

RollNo.setText(s2);

Class.setText(s3);

}

}

**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">

<EditText

android:id="@+id/name\_tv"

android:layout\_width="291dp"

android:layout\_height="45dp"

android:hint="Name of student"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.252" />

<EditText

android:id="@+id/roll\_tv"

android:layout\_width="288dp"

android:layout\_height="47dp"

android:hint="Roll Number"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.487"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.378" />

<EditText

android:id="@+id/class\_tv"

android:layout\_width="287dp"

android:layout\_height="52dp"

android:hint="Class of student"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.483"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.515" />

<TextView

android:id="@+id/textView2"

android:layout\_width="377dp"

android:layout\_height="48dp"

android:layout\_marginStart="20dp"

android:layout\_marginTop="78dp"

android:layout\_marginEnd="20dp"

android:layout\_marginBottom="47dp"

android:gravity="center\_vertical|center\_horizontal"

android:text="Student Information"

android:textSize="30dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toTopOf="@+id/name\_tv"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.333"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

**OUTPUT:**



