**Practical No. 6**

**Title: Android program using Shared Preferences, Internal and External Storage**

**Aim: Create an application to demonstrate Shared Preferences, Internal and External Storage**

**Exercise - Create android application to demonstrate Shared Preferences**

**Implementation: Program:**

**MainActivity.java**

package com.example.database;

import androidx.appcompat.app.AppCompatActivity;

import android.content.SharedPreferences; import android.os.Bundle; import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

private TextView t1; private EditText e1; private Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

t1=findViewById(R.id.tv); e1=findViewById(R.id.editText); b1=findViewById(R.id.button);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) { String val=e1.getText().toString(); SharedPreferences

sp1=getSharedPreferences("myPref",MODE\_PRIVATE); SharedPreferences.Editor ed=sp1.edit(); ed.putString("name",val); ed.apply(); t1.setText(val);

}

});

SharedPreferences sp1=getSharedPreferences("myPref",MODE\_PRIVATE);

String editval=sp1.getString("name","No value"); t1.setText(editval);

}

}

**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">

<TextView

android:id="@+id/tv" android:layout\_width="181dp" android:layout\_height="54dp" android:text="No pref" android:textAlignment="center" android:textSize="24sp"

app:layout\_constraintBottom\_toTopOf="@+id/editText" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.649" />

<EditText

android:id="@+id/editText" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginBottom="88dp" android:ems="10"

android:inputType="textPersonName" android:text="Name"

app:layout\_constraintBottom\_toTopOf="@+id/button" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.497" app:layout\_constraintStart\_toStartOf="parent" />

<Button

android:id="@+id/button" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginBottom="268dp" android:text="Click"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.498" app:layout\_constraintStart\_toStartOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Output:** 