#### Practical No.: 19

### Aim: Shared Preference to store Value in name-value pair

### Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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:orientation="vertical">
  <TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:text="@string/login"
    android:textSize="40sp"/>
  <EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:hint="@string/username"
    android:id="'@+id/username"/>
  <EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout marginTop="10dp"
    android:hint="@string/password"
    android:id="@+id/password"/>
  <Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="@string/login"
    android:textSize="20sp"
    android:layout_marginTop="10dp"
    android:id="@+id/button"/>
</LinearLayout>
Strings.xml
<resources>
  <string name="app_name">Practical_No_19</string>
  <string name="login">Login</string>
  <string name="username">Enter Username</string>
  <string name="password">Enter Password</string>
  <string name="home">Home</string>
```

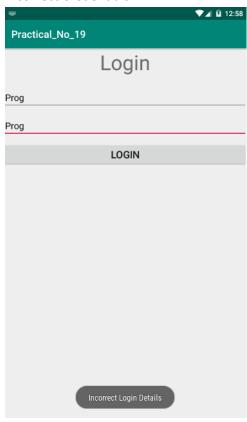
```
<string name="welcome">-- Welcome --</string>
  <string name="logout">Logout</string>
</resources>
MainActivity.java
package com.example.practical_no_19;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  EditText username, password;
  Button button;
  SharedPreferences sharedPreferences;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    username=findViewById(R.id.username);
    password=findViewById(R.id.password);
    button=findViewById(R.id.button);
    sharedPreferences=getSharedPreferences("login",MODE_PRIVATE);
    //if SharedPerferences have username and password
    if(sharedPreferences.contains("username") &&
sharedPreferences.contains("passworrd"))
      Intent intent=new Intent(MainActivity.this,Home.class);
      startActivity(intent);
      finish();
    button.setOnClickListener(
         new View.OnClickListener() {
           @Override
           public void onClick(View v) {
             loginCheck();
    );
  private void loginCheck()
```

```
{
    //check username and password
    if(username.getText().toString().equals("Programmer") &&
password.getText().toString().equals("Programmer"))
      SharedPreferences.Editor edit=sharedPreferences.edit();
      edit.putString("username","Programmer");
      edit.putString("password","Programmer");
      edit.commit();
      Toast.makeText(this, "Login Successful", Toast.LENGTH_SHORT).show();
      startActivity(new Intent(MainActivity.this,Home.class));
      finish();
    else
      Toast.makeText(this, "Incorrect Login Details", Toast.LENGTH SHORT).show();
  }
}
Right click on package name → New → Activity → Empty Activity → Name Home
Activity_home.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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=".Home"
  android:orientation="vertical">
  <TextView
    android:layout width="match parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:text="@string/home"
    android:textSize="40sp"/>
  <TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:text="@string/welcome"
    android:textSize="30sp"
    android:layout marginTop="10dp"/>
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="20sp"
    android:text="@string/logout"
    android:layout_marginTop="20dp"
```

```
android:id="@+id/logout"/>
</LinearLayout>
Home.java
package com.example.practical_no_19;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class Home extends AppCompatActivity {
  Button logout;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_home);
    logout=findViewById(R.id.logout);
    logout.setOnClickListener(
         new View.OnClickListener() {
           @Override
           public void onClick(View v) {
             SharedPreferences
shared Preferences = getShared Preferences ("login", MODE\_PRIVATE);
             SharedPreferences.Editor e=sharedPreferences.edit();
             e.clear();
             e.commit();
             startActivity(new Intent(Home.this,MainActivity.class));
             finish();
         }
    );
```

# **Output:**

## **Incorrect Credentials**



### **Correct Credentials**



