**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<android.support.constraint.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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<EditText

android:id="@+id/editTextTextUserName"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="@string/uname"

android:inputType="textPersonName" />

<EditText

android:id="@+id/editTextTextPassword"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="@string/pwd"

android:inputType="textPersonName" />

<Button

android:id="@+id/button"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/cl" />

<Button

android:id="@+id/button2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/login" />

</LinearLayout>

</android.support.constraint.ConstraintLayout>

**MainActivity.java**

package com.example.ex11;

import android.app.Activity;

import android.content.DialogInterface;

import android.content.SharedPreferences;

import android.content.res.Configuration;

import android.support.v7.app.ActionBar;

import android.support.v7.app.AlertDialog;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import java.util.Locale;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

loadLocale();

ActionBar actionBar = getSupportActionBar();

actionBar.setTitle(getResources().getString(R.string.app\_name));

setContentView(R.layout.activity\_main);

Button changeLanguageButton = findViewById(R.id.button);

changeLanguageButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

showChangeLanguage();

}

});

}

private void showChangeLanguage(){

final String[] languages = {"Tamil", "Hindi", "English"};

AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);

builder.setTitle("Choose a Language");

builder.setSingleChoiceItems(languages, -1, new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialogInterface, int i) {

if(i == 0){

setLocale("ta");

recreate();

}

else if(i == 1){

setLocale("hi");

recreate();

}

else if(i == 2){

setLocale("en");

recreate();

}

dialogInterface.dismiss();

}

});

AlertDialog alertDialog = builder.create();

alertDialog.show();

}

private void setLocale(String lang){

Locale locale = new Locale(lang);

Locale.setDefault(locale);

Configuration configuration = new Configuration();

configuration.locale = locale;

getBaseContext().getResources().updateConfiguration(configuration, getBaseContext().getResources().getDisplayMetrics());

SharedPreferences.Editor editor = getSharedPreferences("settings", MODE\_PRIVATE).edit();

editor.putString("Mylang", lang);

editor.apply();

}

public void loadLocale(){

SharedPreferences sharedPreferences = getSharedPreferences("settings", Activity.MODE\_PRIVATE);

String lang = sharedPreferences.getString("Mylang", "");

setLocale(lang);

}

}

**values/strings.xml**

<resources>

<string name="app\_name">Ex11</string>

<string name="uname">User name</string>

<string name="pwd">Password</string>

<string name="cl">Change Language</string>

<string name="login">Login</string>

</resources>

**ta/strings.xml**

<?xml version="1.0" encoding="utf-8"?>

<resources>

<string name="app\_name">Ex11</string>

<string name="uname">பயனர் பெயர்</string>

<string name="pwd">கடவுச்சொல்</string>

<string name="cl">மொழியை மாற்றவும்</string>

<string name="login">உள்நுழைய</string>

</resources>

**hi/strings.xml**

<?xml version="1.0" encoding="utf-8"?>

<resources>

<string name="app\_name">Ex11</string>

<string name="uname">उपयोगकर्ता नाम</string>

<string name="pwd">पासवर्ड</string>

<string name="cl">भाषा बदलें</string>

<string name="login">लॉग इन करें</string>

</resources>

**OUTPUT**

