**ANDROID LAB**

**Experiment No.: 4**

**Aim**

**Design a registration activity and store registration details in local memory of phone using Intents and SharedPreferences.**

**Program**

**Register Form Page**

**------------------------------------------------------------------- XML Code -------------------------------------------------------------------**

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

**<LinearLayout 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"**

**android:orientation="vertical"**

**android:paddingHorizontal="20dp"**

**android:id="@+id/main\_layout"**

**android:paddingVertical="10dp"**

**tools:context=".SharedPreferencesQues05Activity">**

**<EditText**

**android:id="@+id/fullname"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:inputType="textPersonName"**

**android:layout\_marginTop="30dp"**

**android:hint="Full Name"/>**

**<EditText**

**android:id="@+id/emailid"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="10dp"**

**android:inputType="textEmailAddress"**

**android:hint="Email ID"/>**

**<RadioGroup**

**android:id="@+id/gender\_radioGroup"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="10dp"**

**android:orientation="horizontal">**

**<RadioButton**

**android:id="@+id/male\_gender"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Male"/>**

**<RadioButton**

**android:id="@+id/female\_gender"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginLeft="10dp"**

**android:text="Female"/>**

**<RadioButton**

**android:id="@+id/others\_gender"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginLeft="10dp"**

**android:text="Others"/>**

**</RadioGroup>**

**<TextView**

**android:id="@+id/gender\_error"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:textColor="#ff0000"/>**

**<EditText**

**android:id="@+id/password"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:hint="Password"**

**android:inputType="textPassword"**

**android:layout\_marginTop="10dp"/>**

**<Button**

**android:id="@+id/register\_btn"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="10dp"**

**android:text="Register"/>**

**</LinearLayout>**

**------------------------------------------------------------------- Java Code -------------------------------------------------------------------**

**package com.example.loginformques01;**

**import androidx.appcompat.app.AppCompatActivity;**

**import android.content.Intent;**

**import android.content.SharedPreferences;**

**import android.os.Bundle;**

**import android.util.Patterns;**

**import android.view.View;**

**import android.widget.Button;**

**import android.widget.EditText;**

**import android.widget.LinearLayout;**

**import android.widget.RadioButton;**

**import android.widget.RadioGroup;**

**import android.widget.TextView;**

**public class SharedPreferencesQues05Activity extends AppCompatActivity {**

**EditText fullname, emailid, password;**

**RadioGroup gender\_radioGroup;**

**RadioButton male\_gender, female\_gender, others\_gender;**

**Button register\_btn;**

**TextView gender\_error;**

**LinearLayout main\_layout;**

**@Override**

**protected void onCreate(Bundle savedInstanceState) {**

**super.onCreate(savedInstanceState);**

**setContentView(R.layout.activity\_shared\_preferences\_ques05);**

**fullname= findViewById(R.id.fullname);**

**emailid= findViewById(R.id.emailid);**

**password= findViewById(R.id.password);**

**gender\_radioGroup= findViewById(R.id.gender\_radioGroup);**

**male\_gender= findViewById(R.id.male\_gender);**

**female\_gender= findViewById(R.id.female\_gender);**

**others\_gender= findViewById(R.id.others\_gender);**

**register\_btn= findViewById(R.id.register\_btn);**

**gender\_error= findViewById(R.id.gender\_error);**

**main\_layout= findViewById(R.id.main\_layout);**

**register\_btn.setOnClickListener(new View.OnClickListener() {**

**@Override**

**public void onClick(View view) {**

**main\_layout.clearFocus();**

**gender\_error.setText("");**

**String password\_regex = "^(?=.\*[0-9])(?=.\*[a-z])(?=.\*[A-Z])(?=.\*[@#$%^&+=])(?=\\S+$).{4,}$";**

**String fullname\_text= fullname.getText().toString();**

**String emailid\_text= emailid.getText().toString();**

**String password\_text= password.getText().toString();**

**int gender\_selected= gender\_radioGroup.getCheckedRadioButtonId();**

**if(fullname\_text.equals("")){**

**fullname.requestFocus();**

**fullname.setError("Please enter fullname !!");**

**}**

**else if(fullname\_text.length() < 3){**

**fullname.requestFocus();**

**fullname.setError("Fullname should be more than 2 characters !!");**

**}**

**else if(emailid\_text.equals("")){**

**emailid.requestFocus();**

**emailid.setError("Please enter email-id !!");**

**}**

**else if(!Patterns.EMAIL\_ADDRESS.matcher(emailid\_text).matches()){**

**emailid.requestFocus();**

**emailid.setError("Please enter a valid email-id !!");**

**}**

**else if(gender\_selected < 0){**

**gender\_error.setText("Select anyone of the gender option !!");**

**}**

**else if(!password\_text.matches(password\_regex)){**

**password.requestFocus();**

**password.setError("Password should contain - \na digit must occur at least once\na lower case letter must occur at least once\nan upper case letter must occur at least once\na special character like @#$%^&+=\nNo blank spaces allowed\natleast 6 characters");**

**}**

**else{**

**fullname.setError("");**

**emailid.setError("");**

**gender\_error.setText("");**

**password.setError("");**

**SharedPreferences pref= getSharedPreferences("register\_data", MODE\_PRIVATE);**

**SharedPreferences.Editor pref\_edit= pref.edit();**

**pref\_edit.putString("reg\_fullname",fullname\_text);**

**pref\_edit.putString("reg\_emailid",emailid\_text);**

**pref\_edit.putString("reg\_password",password\_text);**

**pref\_edit.putInt("reg\_gender",gender\_selected);**

**pref\_edit.apply();**

**Intent intent= new Intent(getApplicationContext(),SharedPreferencesResultPageActivity.class);**

**startActivity(intent);**

**}**

**}**

**});**

**}**

**}**

**####################################################################################################################################################**

**User Details Result Page**

**------------------------------------------------------------------- XML Code -------------------------------------------------------------------**

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

**<LinearLayout 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"**

**android:orientation="vertical"**

**android:gravity="center"**

**android:padding="10dp"**

**tools:context=".SharedPreferencesResultPageActivity">**

**<TextView**

**android:id="@+id/fullname\_result"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="10dp"**

**android:text="Name : "/>**

**<TextView**

**android:id="@+id/emailid\_result"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="10dp"**

**android:text="Name : "/>**

**<TextView**

**android:id="@+id/gender\_result"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="10dp"**

**android:text="Gender : "/>**

**<TextView**

**android:id="@+id/password\_result"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="10dp"**

**android:text="Password : "/>**

**</LinearLayout>**

**------------------------------------------------------------------- Java Code -------------------------------------------------------------------**

**package com.example.loginformques01;**

**import androidx.appcompat.app.AppCompatActivity;**

**import android.content.SharedPreferences;**

**import android.os.Bundle;**

**import android.widget.TextView;**

**public class SharedPreferencesResultPageActivity extends AppCompatActivity {**

**TextView fullname\_result, emailid\_result, gender\_result, password\_result;**

**@Override**

**protected void onCreate(Bundle savedInstanceState) {**

**super.onCreate(savedInstanceState);**

**setContentView(R.layout.activity\_shared\_preferences\_result\_page);**

**fullname\_result= findViewById(R.id.fullname\_result);**

**emailid\_result= findViewById(R.id.emailid\_result);**

**gender\_result= findViewById(R.id.gender\_result);**

**password\_result= findViewById(R.id.password\_result);**

**SharedPreferences pref= getSharedPreferences("register\_data", MODE\_PRIVATE);**

**String name= pref.getString("reg\_fullname","Sample Name");**

**String email= pref.getString("reg\_emailid","Sample Email");**

**String password= pref.getString("reg\_password","Sample Password");**

**int gender\_id= pref.getInt("reg\_gender",0);**

**String gender;**

**if(gender\_id==0)**

**gender= "Male";**

**else if(gender\_id==1)**

**gender= "Female";**

**else if(gender\_id==2)**

**gender= "Others";**

**else**

**gender="Sample Gender";**

**fullname\_result.setText(name);**

**emailid\_result.setText(email);**

**gender\_result.setText(gender);**

**password\_result.setText(password);**

**}**

**}**