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Class : TY CS Div A

Aim : Spinner and Shared Preferences.

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activity_mail.xml

```
<?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"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/txt_name"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Name"
        android:inputType="textPersonName"
        android:textSize="28dp"
        android:text="" />

    <EditText
        android:id="@+id/txt_phone"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Phone no"
        android:inputType="phone"
        android:textSize="28dp" />

    <EditText
        android:id="@+id/txt_email"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="E-Mail"
        android:inputType="textEmailAddress"
        android:textSize="28dp" />

    <RadioGroup
        android:id="@+id/rg_gender"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <RadioButton
            android:id="@+id/rb_male"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Male" />
    </RadioGroup>
</LinearLayout>
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        <RadioButton
            android:id="@+id/rb_female"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Female" />
    </RadioGroup>

    <CheckBox
        android:id="@+id/chk_php"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="PHP" />

    <CheckBox
        android:id="@+id/chk_java"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="JAVA" />

    <CheckBox
        android:id="@+id/chk_python"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Python" />

    <Spinner
        android:id="@+id/spinner1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />

    <Button
        android:id="@+id/login"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:onClick="store_data"
        android:text="Enter"
        android:textSize="28dp" />

    <Button
        android:id="@+id/getpreference"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:onClick="store_data1"
        android:text="get Preference"
        android:textSize="28dp" />
</LinearLayout>

```

MainActivity.java

```

package com.example.getsharedpreferences;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;

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import android.os.Bundle;
import android.view.View;
import android.widget.Adapter;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Spinner;
import android.widget.Toast;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

    EditText ed1,ed2,ed3;
    RadioGroup rg1;
    RadioButton rb;
    CheckBox chk1,chk2,chk3;
    Button login;
    Spinner sp;

    ArrayList<String> mylist = new ArrayList<>();
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        ed1 = findViewById(R.id.txt_name);
        ed2 = findViewById(R.id.txt_phone);
        ed3 = findViewById(R.id.txt_email);
        rg1 = findViewById(R.id.rg_gender);
        chk1 = findViewById(R.id.chk_php);
        chk2 = findViewById(R.id.chk_java);
        chk3 = findViewById(R.id.chk_python);

        sp = findViewById(R.id.spinner1);

        mylist.add("Admin");
        mylist.add("Guest");
        mylist.add("User");

        ArrayAdapter<String> adp = new ArrayAdapter<>(this,
android.R.layout.simple_spinner_dropdown_item,mylist);
        sp.setAdapter(adp);
    }

    //----- Using getSharedPreferences -----
    public void store_data(View view) {
        SharedPreferences sobj = this.getSharedPreferences("file1",
Context.MODE_PRIVATE);
        SharedPreferences.Editor eobj = sobj.edit();

        int x = rg1.getCheckedRadioButtonId();
        rb = findViewById(x);

        String checked_text = "";
        if(chk1.isChecked())

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        {
            checked_text += " " + chk1.getText().toString();
        }
        if(chk2.isChecked())
        {
            checked_text += " " + chk2.getText().toString();
        }
        if(chk3.isChecked())
        {
            checked_text += " " + chk3.getText().toString();
        }

        eobj.putString("name", ed1.getText().toString());
        eobj.putString("phone", ed2.getText().toString());
        eobj.putString("email", ed3.getText().toString());
        eobj.putString("type", sp.getSelectedItem().toString());
        eobj.putString("gender", rb.getText().toString());
        eobj.putString("tech", checked_text);

        eobj.commit();

        Intent i = new Intent(this, MainActivity2.class);
        startActivity(i);
    }

    //----- Using getPreferences -----
    public void store_data1(View view) {
        SharedPreferences obj = this.getSharedPreferences(Context.MODE_PRIVATE);
        SharedPreferences.Editor eobj = obj.edit();

        int x = rg1.getCheckedRadioButtonId();
        rb = findViewById(x);

        String checked_text = "";
        if(chk1.isChecked())
        {
            checked_text += " " + chk1.getText().toString();
        }
        if(chk2.isChecked())
        {
            checked_text += " " + chk2.getText().toString();
        }
        if(chk3.isChecked())
        {
            checked_text += " " + chk3.getText().toString();
        }

        eobj.putString("name", ed1.getText().toString());
        eobj.putString("phone", ed2.getText().toString());
        eobj.putString("email", ed3.getText().toString());
        eobj.putString("type", sp.getSelectedItem().toString());
        eobj.putString("gender", rb.getText().toString());
        eobj.putString("tech", checked_text);
        eobj.commit();

        String name = obj.getString("name", "default name");
        String phone = obj.getString("phone", "default phone");
        String mail = obj.getString("email", "default mail");
        String type = obj.getString("type", "default type");
    }

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        String gender = obj.getString("gender","default gender");
        String tech = obj.getString("tech","default tech");

        Toast.makeText(this,""+ name + "_" + phone + "_" + mail + "_" + gender +
        "_" + tech + "_" + type,Toast.LENGTH_LONG).show();

    }
}

```

activity_main2.xml

```

<?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"
    tools:context=".MainActivity2">

    <TextView
        android:id="@+id/name2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="TextView"
        android:textSize="28dp"/>

    <TextView
        android:id="@+id/phone2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="TextView"
        android:textSize="28dp"/>

    <TextView
        android:id="@+id/email2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="TextView"
        android:textSize="28dp"/>

    <TextView
        android:id="@+id/gender2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="TextView"
        android:textSize="28dp"/>

    <TextView
        android:id="@+id/tech2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="TextView"
        android:textSize="28dp"/>

    <TextView

```

```

        android:id="@+id/type2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="TextView"
        android:textSize="28dp"/>
</LinearLayout>

```

MainActivity2.java

```

package com.example.getsharedpreferences;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);

        SharedPreferences obj = this.getSharedPreferences("file1",
Context.MODE_PRIVATE);

        String name = obj.getString("name","default name");
        String phone = obj.getString("phone","default phone");
        String mail = obj.getString("email","default mail");
        String type = obj.getString("type","default type");
        String gender = obj.getString("gender","default gender");
        String tech = obj.getString("tech","default tech");

        TextView t1 = findViewById(R.id.name2);
        TextView t2 = findViewById(R.id.phone2);
        TextView t3 = findViewById(R.id.email2);
        TextView t4 = findViewById(R.id.gender2);
        TextView t5 = findViewById(R.id.tech2);
        TextView t6 = findViewById(R.id.type2);

        t1.setText("Name : " + name);
        t2.setText("Phone : " + phone);
        t3.setText("Mail : " + mail);
        t4.setText("Gender : " + gender);
        t5.setText("Tech : " + tech);
        t6.setText("Login Type : " + type);
    }
}

```