SharedPreferences Example

@Override

Design layout as:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".PrefActivity"
    android:orientation="vertical">
    <EditText
        android:layout width="match parent"
        android:layout height="wrap content"
        android:id="@+id/etMessage" />
    <TextView
        android:layout width="match parent"
        android:layout_height="wrap_content"
        android:id="@+id/tvMessage" />
    <Button
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Write Preferences"
        android:id="@+id/btnWrite"/>
    <Button
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Read Preferences"
        android:id="@+id/btnRead"/>
</LinearLayout>
Create Activity as:
public class PrefActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity pref);
        TextView tvMessage = findViewById(R.id.tvMessage);
        EditText etMessage = findViewById(R.id.etMessage);
        Button btnSet = findViewById(R.id.btnWrite);
        Button btnGet = findViewById(R.id.btnRead);
        btnSet.setOnClickListener(new View.OnClickListener() {
```

```
public void onClick(View v) {
                SharedPreferences sp = getSharedPreferences("my-pref",
MODE PRIVATE);
                SharedPreferences.Editor ed = sp.edit();
                ed.putString("name", etMessage.getText().toString());
                ed.putBoolean("status", true);
                ed.commit();
                etMessage.setText("");
                Toast.makeText(getApplicationContext(), "SharedPreferences
Set: " + etMessage.getText().toString(), Toast.LENGTH LONG).show();
        });
        btnGet.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                SharedPreferences sp = getSharedPreferences("my-pref",
MODE PRIVATE);
                tvMessage.setText(sp.getString("name", "Not Found"));
                Toast.makeText(getApplicationContext(), "Read Shared Pref: "
+ sp.getString("name", "Not Found"), Toast.LENGTH LONG).show();
        });
    }
}
Set this activity as launcher:
<activity
    android:name=".PrefActivity"
    android:exported="true">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>
</activity>
```

Writing and Reading from/to a file

Design layout as:

```
<?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:id="@+id/main"</pre>
```

```
android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical"
    tools:context=".RWActivity">
    <EditText
        android:id="@+id/etMessage"
        android:layout width="match parent"
        android:layout height="wrap content" />
    <TextView
        android:id="@+id/tvMessage"
        android:layout width="match parent"
        android:layout height="wrap content" />
    <Button
        android:id="@+id/btnWrite"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Write To a file" />
    <Button
        android:id="@+id/btnRead"
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:text="Read From a file" />
</LinearLayout>
```

Design Activity as:

```
public class RWActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity rwactivity);
        TextView tvMessage = findViewById(R.id.tvMessage);
        EditText etMessage = findViewById(R.id.etMessage);
        Button btnSet = findViewById(R.id.btnWrite);
        Button btnGet = findViewById(R.id.btnRead);
        btnSet.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                try {
                    OutputStream outputStream = openFileOutput("myfile.txt",
MODE APPEND);
outputStream.write(etMessage.getText().toString().getBytes());
```

```
outputStream.close();
                    Toast.makeText(getApplicationContext(), "The Data
inserted is Successful", Toast.LENGTH LONG).show();
                } catch (Exception e) {
                    Toast.makeText(getApplicationContext(), "Sorry: " +
e.getMessage(), Toast.LENGTH LONG).show();
        });
        btnGet.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                try {
                    FileInputStream fileInputStream =
openFileInput("myfile.txt");
                    DataInputStream dataInputStream = new
DataInputStream(fileInputStream);
                    StringBuffer sb = new StringBuffer();
                    int c;
                    while ((c = dataInputStream.read()) != -1) {
                        sb.append((char) c);
                    Toast.makeText(getApplicationContext(), "The data read
from file is success", Toast.LENGTH LONG).show();
                    tvMessage.setText(sb.toString());
                } catch (Exception e) {
                    Toast.makeText(getApplicationContext(), "Sorry: " +
e.getMessage(), Toast.LENGTH LONG).show();
        });
}
Set this activity as launcher:
<activity
    android:name=".RWActivity "
    android:exported="true">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>
```

</activity>