```xml
 1  <?xml version="1.0" encoding="utf-8"?>
 2  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
 3      xmlns:tools="http://schemas.android.com/tools"
 4      android:id="@+id/activity_main"
 5      android:layout_width="match_parent"
 6      android:layout_height="match_parent"
 7      android:paddingBottom="@dimen/activity_vertical_margin"
 8      android:paddingLeft="@dimen/activity_horizontal_margin"
 9      android:paddingRight="@dimen/activity_horizontal_margin"
10      android:paddingTop="@dimen/activity_vertical_margin"
11      tools:context="com.example.pok.week_6.MainActivity">
12
13      <EditText
14          android:layout_width="wrap_content"
15          android:layout_height="wrap_content"
16          android:inputType="textPersonName"
17          android:hint="Writing data"
18          android:ems="10"
19          android:layout_marginLeft="13dp"
20          android:layout_marginStart="13dp"
21          android:layout_marginTop="74dp"
22          android:id="@+id/editText"
23          android:layout_alignParentTop="true"
24          android:layout_alignParentLeft="true"
25          android:layout_alignParentStart="true" />
26
27      <Button
28          android:text="Write"
29          android:layout_width="wrap_content"
30          android:layout_height="wrap_content"
31          android:layout_alignTop="@+id/editText"
32          android:layout_alignParentRight="true"
33          android:layout_alignParentEnd="true"
34          android:id="@+id/button1" />
35
36
37      <Button
38          android:text="Read"
39          android:layout_width="wrap_content"
40          android:layout_height="wrap_content"
41          android:id="@+id/button2"
42          android:layout_centerVertical="true"
43          android:layout_alignParentRight="true"
44          android:layout_alignParentEnd="true" />
45
46      <TextView
47          android:text="Read"
48          android:layout_width="wrap_content"
49          android:layout_height="wrap_content"
50          android:id="@+id/textView2"
51          android:layout_alignBaseline="@+id/button2"
52          android:layout_alignBottom="@+id/button2"
53          android:layout_alignLeft="@+id/editText"
54          android:layout_alignStart="@+id/editText"
55          android:textSize="18sp" />
56  </RelativeLayout>
57
```

```java
 1  package com.example.pok.week_6;
 2
 3  import android.content.Context;
 4  import android.support.design.widget.Snackbar;
 5  import android.support.v7.app.AppCompatActivity;
 6  import android.os.Bundle;
 7  import android.util.Log;
 8  import android.view.View;
 9  import android.widget.Button;
10  import android.widget.EditText;
11  import android.widget.TextView;
12
13  import org.w3c.dom.Text;
14
15  import java.io.BufferedReader;
16  import java.io.File;
17  import java.io.FileNotFoundException;
18  import java.io.FileOutputStream;
19  import java.io.IOException;
20  import java.io.InputStream;
21  import java.io.InputStreamReader;
22
23  public class MainActivity extends AppCompatActivity {
24
25      private Context mContext;
26      Button writeBtn, readBtn;
27      EditText writeEdt;
28      TextView readTxt;
29      String fileName = "myFile.txt";
30
31      @Override
32      protected void onCreate(Bundle savedInstanceState) {
33          super.onCreate(savedInstanceState);
34          setContentView(R.layout.activity_main);
35
36          writeBtn = (Button)findViewById(R.id.button1);
37          readBtn = (Button)findViewById(R.id.button2);
38          writeEdt = (EditText)findViewById(R.id.editText);
39          readTxt = (TextView)findViewById(R.id.textView2);
40
41          mContext = this.getApplicationContext();
42
43          writeBtn.setOnClickListener(new View.OnClickListener() {
44              @Override
45              public void onClick(View view) {
46                  writeFile();
47                  Snackbar.make(readTxt,"Write success!",Snackbar.LENGTH_SHORT).show();
48              }
49          });
50
51          readBtn.setOnClickListener(new View.OnClickListener() {
52              @Override
53              public void onClick(View view) {
54                  readTxt.setText(readFile("myFile.txt"));
55              }
56          });
57      }
58
59      private boolean writeFile(){
60
61          String data = writeEdt.getText().toString();
62          FileOutputStream fos;
```

```java
63          File file = new File(mContext.getFilesDir(),fileName);
64
65          try{
66              fos = openFileOutput(fileName,mContext.MODE_PRIVATE);
67              fos.write(data.getBytes());
68              fos.close();
69              return true;
70          }catch(Exception e){
71              e.printStackTrace();
72          }
73
74          return false;
75      }
76
77      private String readFile(String fileName){
78          String ret = "";
79
80          try {
81              InputStream inputStream = mContext.openFileInput(fileName);
82
83              if ( inputStream != null ) {
84                  InputStreamReader inputStreamReader = new InputStreamReader(inputStream);
85                  BufferedReader bufferedReader = new BufferedReader(inputStreamReader);
86                  String receiveString = "";
87                  StringBuilder stringBuilder = new StringBuilder();
88
89                  while ( (receiveString = bufferedReader.readLine()) != null ) {
90                      stringBuilder.append(receiveString);
91                  }
92
93                  inputStream.close();
94                  ret = stringBuilder.toString();
95              }
96          }
97          catch (FileNotFoundException e) {
98              Log.e("login activity", "File not found: " + e.toString());
99          } catch (IOException e) {
100             Log.e("login activity", "Can not read file: " + e.toString());
101         }
102
103         return ret;
104     }
105
106 }
107
```