

파일 입출력



프로젝트 생성



프로젝트 정보

- ✓ Application Name: FileInputOutput01
- ✓ Minimum SDK : API 16
- ✓ Add an activity to Mobile: Blank Activity
- ✓ Activity Name: MainActivity
- ✓ Layout Name: activity_main
- ✓ Title: MainActivity
- ✓ Menu Resource Name: menu_main



activity_main.xml x

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/btn01"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="파일 쓰기" />

    <Button
        android:id="@+id/btn02"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="파일 읽기" />

</LinearLayout>
```

36 5:59

FileInputOutput01

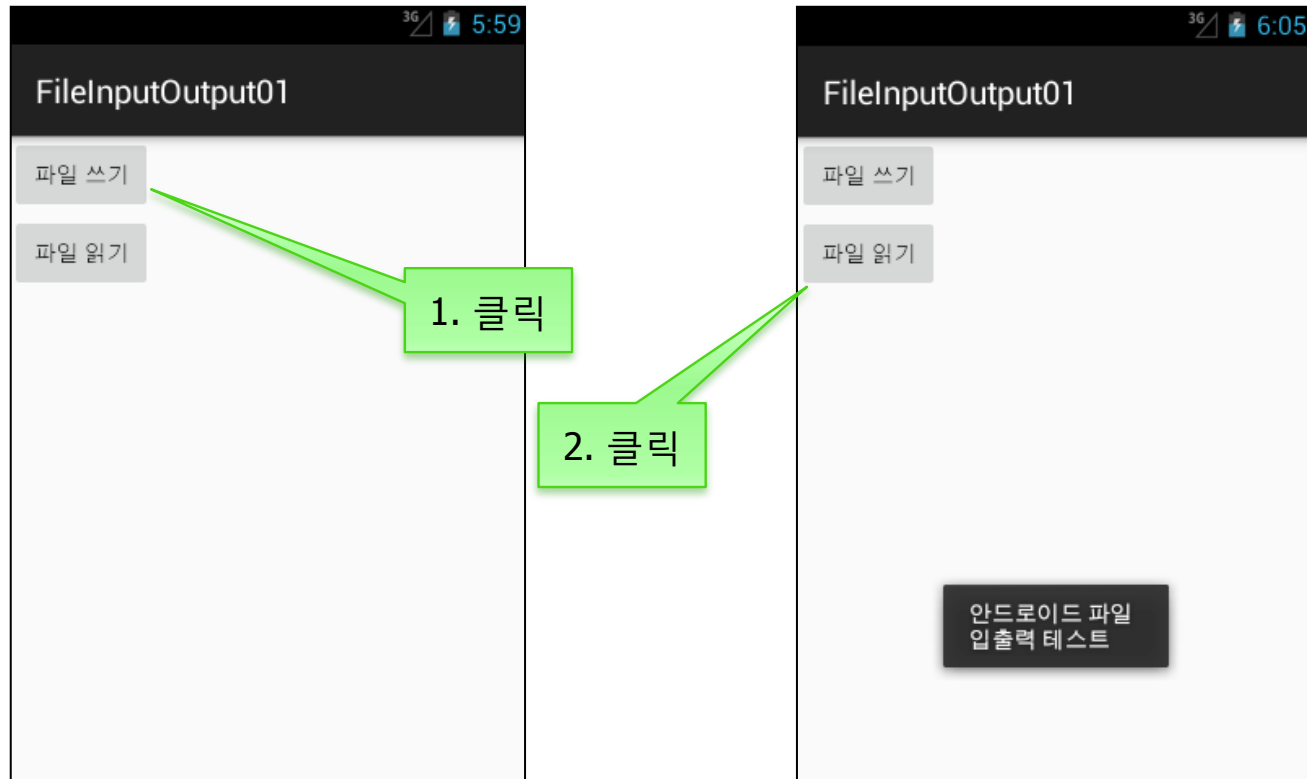
파일 쓰기

파일 읽기

```
MainActivity.java x
1 package com.example.administrator.fileinputoutput01;
2
3 import android.content.Context;
4 import android.os.Bundle;
5 import android.support.v7.app.AppCompatActivity;
6 import android.view.View;
7 import android.widget.Button;
8 import android.widget.Toast;
9
10 import java.io.FileInputStream;
11 import java.io.FileNotFoundException;
12 import java.io.FileOutputStream;
13 import java.io.IOException;
14
```

```
14
15 public class MainActivity extends AppCompatActivity {
16
17     @Override
18     protected void onCreate(Bundle savedInstanceState) {
19         super.onCreate(savedInstanceState);
20         setContentView(R.layout.activity_main);
21
22         Button btn01 = (Button)findViewById(R.id.btn01);
23         Button btn02 = (Button)findViewById(R.id.btn02);
24
25         btn01.setOnClickListener(new View.OnClickListener() {
26             @Override
27             public void onClick(View v) {
28                 try {
29                     FileOutputStream outFs = openFileOutput("file.txt",
30                         Context.MODE_WORLD_WRITEABLE);
31                     String str = "안드로이드 파일" + '\r' + '\n' + "입출력 테스트";
32                     outFs.write(str.getBytes());
33                     outFs.close();
34                 } catch (FileNotFoundException e) {
35                     e.printStackTrace();
36                 } catch (IOException e) {
37                     e.printStackTrace();
38                 }
39             }
40         });
```

```
37         printStackTrace();
38     }
39 }
40 });
41 btn02.setOnClickListener(new View.OnClickListener() {
42     @Override
43     public void onClick(View v) {
44         try {
45             FileInputStream inFs = openFileInput("file.txt");
46             byte[] txt = new byte[100];
47             inFs.read(txt);
48             String str = new String(txt);
49             Toast.makeText(getApplicationContext(), str, Toast.LENGTH_SHORT).show();
50             inFs.close();
51         } catch (FileNotFoundException e) {
52             e.printStackTrace();
53         } catch (IOException e) {
54             e.printStackTrace();
55         }
56     }
57 });
58 }
59 }
60 }
```



```

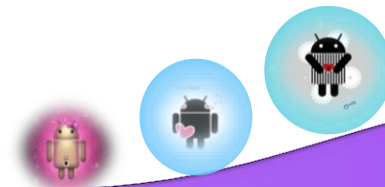
41     }
42     });
43     btn02.setOnClickListener(new View.OnClickListener() {
44         @Override
45         public void onClick(View v) {
46             try {
47                 FileInputStream inFs = openFileInput("file.txt");
48                 BufferedReader in = new BufferedReader(new InputStreamReader(inFs, "UTF-8"));
49                 String str1 = in.readLine();
50
51                 // byte[] txt = new byte[100];
52                 // inFs.read(txt);
53                 // String str = new String(txt);
54                 // Toast.makeText(getApplicationContext(), str, Toast.LENGTH_SHORT).show();
55                 Toast.makeText(getApplicationContext(), str1, Toast.LENGTH_SHORT).show();
56                 inFs.close();
57             } catch (FileNotFoundException e) {
58                 e.printStackTrace();
59             } catch (IOException e) {
60                 e.printStackTrace();
61             }
62         }
63     });
64 }
65 }

```



```
41     }
42     });
43     btn02.setOnClickListener(new View.OnClickListener() {
44         @Override
45         public void onClick(View v) {
46             try {
47                 FileInputStream inFs = openFileInput("file.txt");
48                 BufferedReader in = new BufferedReader(new InputStreamReader(inFs, "UTF-8"));
49                 String str1 = in.readLine();
50                 String str2 = in.readLine();
51
52                 // byte[] txt = new byte[100];
53                 // inFs.read(txt);
54                 // String str = new String(txt);
55                 // Toast.makeText(getApplicationContext(), str, Toast.LENGTH_SHORT).show();
56                 Toast.makeText(getApplicationContext(), str2, Toast.LENGTH_SHORT).show();
57                 inFs.close();
58             } catch (FileNotFoundException e) {
59                 e.printStackTrace();
60             } catch (IOException e) {
61                 e.printStackTrace();
62             }
63         }
64     });
65 }
66 }
```





디렉토리 파일 및 폴더 목록

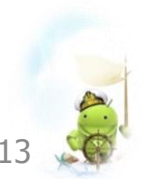


프로젝트 생성



프로젝트 정보

- ✓ Application Name: DirectoryRead
- ✓ Minimum SDK : API 16
- ✓ Add an activity to Mobile: Blank Activity
- ✓ Activity Name: MainActivity
- ✓ Layout Name: activity_main
- ✓ Title: MainActivity
- ✓ Menu Resource Name: menu_main





```
MainActivity.java x
1 package com.example.administrator.sdcardread;
2
3 import ...
11
12 public class MainActivity extends AppCompatActivity {
13
14     @Override
15     protected void onCreate(Bundle savedInstanceState) {
16         super.onCreate(savedInstanceState);
17         setContentView(R.layout.activity_main);
18
19         Button btn;
20         final EditText edt;
21         btn = (Button) findViewById(R.id.btn);
22         edt = (EditText) findViewById(R.id.edt);
23
```

```
23
24 btn.setOnClickListener(new View.OnClickListener() {
25     @Override
26     public void onClick(View v) {
27         String sysDir = Environment.getExternalStorage()
28             .getAbsolutePath();
29         File[] sysFiles = (new File(sysDir).listFiles());
30
31         String strFname;
32         for(int i = 0 ; i < sysFiles.length; i++){
33             if(sysFiles[i].isDirectory() == true)
34                 strFname = "<폴더>" + sysFiles[i].toString();
35             else
36                 strFname = "<파일>" + sysFiles[i].toString();
37
38             edt.setText(edt.getText() + "\n" + strFname);
39         }
40     }
41 });
42 }
43 }
```

