

Reading and writing a file in android

// Reading and writing to a file

// permissions required

```
<uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
```

```
<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
```

// ex9_main.java

```
public class ex9_main extends AppCompatActivity {
```

```
    @Override
```

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

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.ex9_main);
```

```
        Button bt_read=findViewById(R.id.bt_read);
```

```
        Button bt_write=findViewById(R.id.bt_write);
```

```
        final EditText et_name=findViewById(R.id.et_name);
```

```
        final EditText et_text=findViewById(R.id.et_content);
```

```
        bt_read.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

```
            public void onClick(View v) {
```

```
                try {
```

```
                    String inp,text="";
```

```
                    File file=new File(getFilesDir(),et_name.getEditableText().toString());
```

```
                    BufferedReader bf=new BufferedReader(new FileReader(file));
```

```
                    while((inp=bf.readLine())!=null)
```

```
                        text+=inp;
```

```
                    et_text.setText(text);
```

```
                    Toast.makeText(ex9_main.this, "File Read", Toast.LENGTH_SHORT).show();
```

```
                }
```

```
                catch (Exception e){
```

```
                    e.printStackTrace();
```

```
                }
```

```
            }
```

```
        });
```

```
        bt_write.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

```
            public void onClick(View v) {
```

```
                try {
```

```
                    File file=new File(getFilesDir(),et_name.getEditableText().toString());
```

```
                    FileOutputStream fp = new FileOutputStream(file);
```

```
                    fp.write(et_text.getEditableText().toString().getBytes());
```

```

        fp.close();

        et_text.setText("");
        Toast.makeText(ex9_main.this, "File Written",
Toast.LENGTH_SHORT).show();
    }
    catch (Exception e){
        e.printStackTrace();
    }
}
});
}
}
}

```

// ex9_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    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"
    tools:context="cocomo.lab.ex9_main">

    <EditText
        android:id="@+id/et_name"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="File name"/>
    <EditText
        android:id="@+id/et_content"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/et_name"
        android:hint="File Content"/>
    <Button
        android:id="@+id/bt_read"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="read"
        android:layout_below="@+id/et_content"/>
    <Button
        android:id="@+id/bt_write"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="write"
        android:layout_toRightOf="@+id/bt_read"
        android:layout_below="@+id/et_content"/>

</RelativeLayout>

```

MC Lab

test1

testing the file `code`

READ

WRITE