

Java

```
package com.example.lab9;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
import java.io.BufferedReader;
import java.io.FileOutputStream;
import java.io.FileReader;
import java.io.IOException;

public class MainActivity extends AppCompatActivity {

    private EditText editTextInput;
    private TextView textContent;

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

        editTextInput = findViewById(R.id.edit_text_input);
        textContent = findViewById(R.id.text_content);

        Button buttonWrite = findViewById(R.id.button_write);
        buttonWrite.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String inputText = editTextInput.getText().toString();
                if (!inputText.isEmpty()) {
                    writeFile("example.txt", inputText);
                    editTextInput.setText("");
                    displayFileContent("example.txt");
                }
            }
        });

        // Display initial content of the file
        displayFileContent("example.txt");
    }

    private void writeFile(String filename, String data) {
        try {
            FileOutputStream fos = openFileOutput(filename, MODE_PRIVATE);
            fos.write(data.getBytes());
        }
    }
}
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        fos.close();
    } catch (IOException e) {
        e.printStackTrace();
    }
}

private void displayFileContent(String filename) {
    StringBuilder content = new StringBuilder();
    try {
        BufferedReader br = new BufferedReader(new FileReader(getFilesDir() + "/" + filename));
        String line;
        while ((line = br.readLine()) != null) {
            content.append(line);
        }
        br.close();
    } catch (IOException e) {
        e.printStackTrace();
    }
    textContent.setText(content.toString());
}
}

```

xml

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<?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"
    android:padding="16dp"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/edit_text_input"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter text to write to file"/>

    <Button
        android:id="@+id/button_write"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/edit_text_input"
        android:layout_marginTop="8dp"
        android:text="Write to File"/>

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<TextView
    android:id="@+id/text_content"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/button_write"
    android:layout_marginTop="16dp"
    android:textSize="18sp"
    android:text="File Content will be displayed here" />
```

```
</RelativeLayout>
```