

PRACTICAL 12

Aim: Develop an Android application which takes inputs from user and on click of “save” button writes contents into file. (Save file in an application memory).

Code:

JAVA FILE: (MainActivity.java)

```
package com.example.practical12;
import android.content.Context;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import java.io.FileOutputStream;
import java.io.IOException;

public class MainActivity extends AppCompatActivity {
    private EditText editTextContent;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        editTextContent = findViewById(R.id.editTextContent);
        Button buttonSave = findViewById(R.id.buttonSave);
        buttonSave.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                saveToFile();
            }
        });
    }
    private void saveToFile() {
        String content = editTextContent.getText().toString();
        try (FileOutputStream fos = openFileOutput("user_data.txt",
Context.MODE_PRIVATE)) {
            fos.write(content.getBytes());
            Toast.makeText(this, "File saved successfully", Toast.LENGTH_SHORT).show();
        } catch (IOException e) {
            e.printStackTrace();
            Toast.makeText(this, "Error saving file", Toast.LENGTH_SHORT).show();
        }
    }
}
```

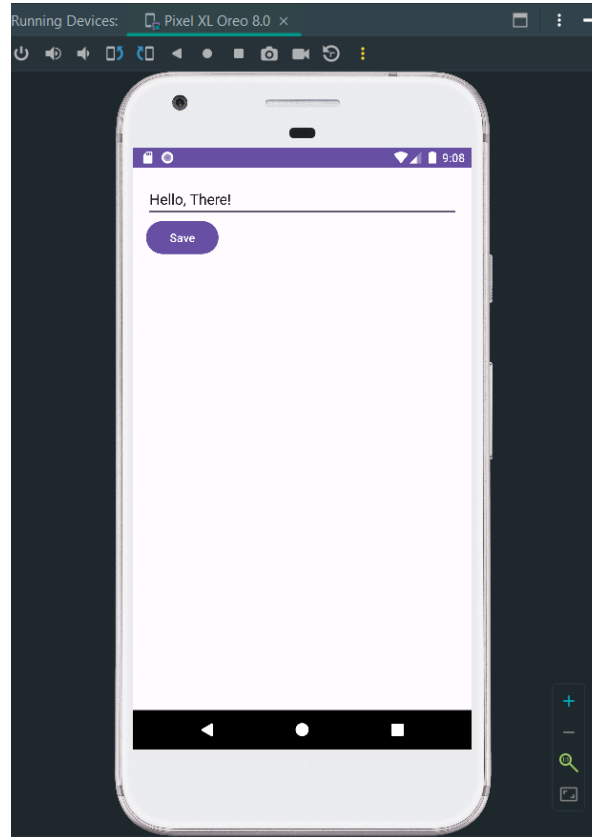
```
    }  
    }  
}
```

XML FILE: (activity_main.xml)

```
<?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:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:orientation="vertical"  
    android:padding="16dp"  
    tools:context=".MainActivity">  
    <EditText  
        android:id="@+id/editTextContent"  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"  
        android:hint="Enter text here" />  
    <Button  
        android:id="@+id/buttonSave"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:text="Save" />  
</LinearLayout>
```

Enrollment No: 202203103510097

Output:



The screenshot shows the Android Studio interface with a virtual device named 'Pixel XL' running Android 8.0 ('Oreo'). The 'Files' tab is active, displaying a file explorer view. The directory structure includes folders for various applications and a file named 'user_data.txt'. The file 'user_data.txt' is highlighted, showing its permissions as '-rw-rw----' and its size as '13 B'.

Name	Permissions	Date	Size
com.breel.geswallpapers	drwx-----	2023-10-29 15:00	4 KB
com.example.practical11	drwx-----	2023-11-01 09:01	4 KB
com.example.practical12	drwx-----	2023-11-01 09:02	4 KB
com.example.practical13	drwx-----	2023-11-01 09:08	4 KB
cache	drwxrws--x	2023-11-01 09:08	4 KB
code_cache	drwxrws--x	2023-11-01 09:08	4 KB
files	drwxrwx--x	2023-11-01 09:09	4 KB
user_data.txt	-rw-rw----	2023-11-01 09:09	13 B
com.example.practical3	drwx-----	2023-09-15 21:19	4 KB
com.example.practical5	drwx-----	2023-09-15 21:19	4 KB
com.example.practical6b	drwx-----	2023-10-11 18:51	4 KB
com.example.practical9	drwx-----	2023-09-27 09:02	4 KB
com.example.practical9timepicke	drwx-----	2023-09-27 09:38	4 KB
com.example.practical_10	drwx-----	2023-10-29 11:34	4 KB
com.example.practical_6	drwx-----	2023-10-10 14:52	4 KB
com.google.android.apps.docs	drwx-----	2023-11-01 00:07	4 KB
com.google.android.apps.inputm	drwx-----	2023-10-29 15:00	4 KB
com.google.android.apps.maps	drwx-----	2023-10-29 15:00	4 KB
com.google.android.apps.messac	drwx-----	2023-10-29 15:00	4 KB