

Experiment 10

Develop an android application to save data in a text file.

Layout.xml

```
1. <?xml version="1.0" encoding="utf-8"?>
2. <androidx.constraintlayout.widget.ConstraintLayout xmlns:android=
   "http://schemas.android.com/apk/res/android"
3.     xmlns:app="http://schemas.android.com/apk/res-auto"
4.     xmlns:tools="http://schemas.android.com/tools"
5.     android:layout_width="match_parent"
6.     android:layout_height="match_parent"
7.     android:padding="16dp"
8.     tools:context=".MainActivity">
9.
10.    <TextView
11.        android:id="@+id/tv_loadFile"
12.        android:layout_width="0dp"
13.        android:layout_height="wrap_content"
14.        android:layout_marginTop="32dp"
15.        android:hint="@string/tv_loadFile_hint"
16.        android:textSize="18sp"
17.        app:layout_constraintEnd_toEndOf="parent"
18.        app:layout_constraintHorizontal_bias="0.0"
19.        app:layout_constraintStart_toStartOf="parent"
20.        app:layout_constraintTop_toBottomOf="@+id/et_writeFi
   le" />
21.
22.    <EditText
23.        android:id="@+id/et_writeFile"
24.        android:layout_width="0dp"
25.        android:layout_height="wrap_content"
26.        android:layout_marginTop="44dp"
27.        android:ems="10"
28.        android:gravity="start|top"
29.        android:hint="@string/et_writeFile"
30.        android:inputType="textMultiLine"
31.        android:textSize="18sp"
32.        app:layout_constraintEnd_toEndOf="parent"
33.        app:layout_constraintHorizontal_bias="0.0"
34.        app:layout_constraintStart_toStartOf="parent"
35.        app:layout_constraintTop_toBottomOf="@+id/appTitle"
   />
36.
37.    <TextView
38.        android:id="@+id/appTitle"
39.        android:layout_width="0dp"
```

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```
40.         android:layout_height="wrap_content"
41.         android:layout_marginTop="68dp"
42.         android:fontFamily="monospace"
43.         android:text="@string/appTitle_txt"
44.         android:textAlignment="center"
45.         android:textSize="30sp"
46.         app:layout_constraintEnd_toEndOf="parent"
47.         app:layout_constraintHorizontal_bias="0.498"
48.         app:layout_constraintStart_toStartOf="parent"
49.         app:layout_constraintTop_toTopOf="parent" />
50.
51.     <Button
52.         android:id="@+id/btn_loadFile"
53.         android:layout_width="0dp"
54.         android:layout_height="wrap_content"
55.         android:layout_marginTop="16dp"
56.         android:text="@string/btn_loadFile_txt"
57.         app:layout_constraintBottom_toBottomOf="parent"
58.         app:layout_constraintEnd_toEndOf="parent"
59.         app:layout_constraintHorizontal_bias="0.5"
60.         app:layout_constraintStart_toStartOf="parent"
61.         app:layout_constraintTop_toBottomOf="@+id/btn_wrtieF
    ile" />
62.
63.     <Button
64.         android:id="@+id/btn_wrtieFile"
65.         android:layout_width="0dp"
66.         android:layout_height="wrap_content"
67.         android:text="@string/btn_writeFile_txt"
68.         app:layout_constraintBottom_toTopOf="@+id/btn_loadFi
    le"
69.         app:layout_constraintEnd_toEndOf="parent"
70.         app:layout_constraintHorizontal_bias="0.5"
71.         app:layout_constraintStart_toStartOf="parent"
72.         app:layout_constraintTop_toBottomOf="@+id/tv_loadFil
    e"
73.         app:layout_constraintVertical_chainStyle="packed" />
74.
75. </androidx.constraintlayout.widget.ConstraintLayout>
```

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Layout.java

```
1. package com.example.filestoragebasix;
2.
3. import androidx.appcompat.app.AppCompatActivity;
4.
5. import android.os.Bundle;
6. import android.view.View;
7. import android.widget.EditText;
8. import android.widget.TextView;
9. import android.widget.Toast;
10.
11.     import java.io.BufferedReader;
12.     import java.io.FileInputStream;
13.     import java.io.FileOutputStream;
14.     import java.io.IOException;
15.     import java.io.InputStreamReader;
16.
17.     public class MainActivity extends AppCompatActivity {
18.
19.         private static final String FILE_NAME = "testFile.txt";
20.
21.         private EditText content;
22.         private TextView loadContent;
23.
24.         @Override
25.         protected void onCreate(Bundle savedInstanceState) {
26.             super.onCreate(savedInstanceState);
27.             setContentView(R.layout.activity_main);
28.
29.             content = findViewById(R.id.et_writeFile);
30.             loadContent = findViewById(R.id.tv_loadFile);
31.
32.             //read or load
33.             findViewById(R.id.btn_loadFile).setOnClickListener(n
34. ew View.OnClickListener() {
35.                 @Override
36.                 public void onClick(View view) {
37.                     try {
38.                         loadFile();
39.                     } catch (IOException e) {
40.                         e.printStackTrace();
41.                     }
42.                 }
43.             });
```

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```
42.
43.         //write or save
44.         findViewById(R.id.btn_wrtieFile).setOnClickListener(
new View.OnClickListener() {
45.             @Override
46.             public void onClick(View view) {
47.                 try {
48.                     saveFile();
49.                 } catch (IOException e) {
50.                     e.printStackTrace();
51.                 }
52.             }
53.         });
54.
55.     }
56.
57.     public void saveFile() throws IOException {
58.         String entered_txt = content.getText().toString();
59.         FileOutputStream fos = openFileOutput(FILE_NAME,MODE
_PRIVATE);
60.         fos.write(entered_txt.getBytes());
61.
62.         content.getText().clear();
63.         Toast.makeText(getApplicationContext(),"Saved to "+g
etDataDir()+"/"+FILE_NAME,Toast.LENGTH_LONG).show();
64.         fos.close();
65.     }
66.
67.     public void loadFile() throws IOException {
68.         FileInputStream fis = openFileInput(FILE_NAME);
69.         InputStreamReader isr = new InputStreamReader(fis);
70.
71.         BufferedReader bfr = new BufferedReader(isr);
72.         StringBuilder str_bldr = new StringBuilder();
73.         String text;
74.         while((text = bfr.readLine()) != null){
75.             str_bldr.append(text).append("\n");
76.         }
77.         loadContent.setText(str_bldr.toString());
78.         fis.close();
79.     }
80. }
```

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Snapshots:

