Ex. No. : 06 Date: 25/03/2025

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SD CARD FILE SAVING

Aim

Implement an application to write the name and CGPA to SD card in text file format.

Procedure:

Step 1 : File -> NewProject

Provide the application name and Click "Next"

Step 2 : Select the target android devices

Select the minimum SDK to run the application. Click "Next".

Step 3: Choose the activity for the application (By default choose "Blank Activity).

Click "Next".

Step 4 : Enter activity name and click " Finish ".

Step 5 : Edit the program.

Step 6: Run the application, 2-ways to run the application.

- 1. Running through emulator
- 2. Running through mobile device

AndroidManifest.xml

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  package="com.example.ex7">
  <uses-permission
android:name="android.permission.WRITE_EXTERNAL_STORAGE"
    android:maxSdkVersion="28" />
  <uses-permission
android:name="android.permission.READ_EXTERNAL_STORAGE"
  <application
    android:allowBackup="true"
    android:label="SD Card Writer"
    android:supportsRtl="true"
    android:theme="@style/Theme.AppCompat.Light.NoActionBar">
    <activity
       android:name=".MainActivity"
       android:exported="true">
       <intent-filter>
         <action android:name="android.intent.action.MAIN" />
         <category android:name="android.intent.category.LAUNCHER" />
       </intent-filter>
    </activity>
  </application>
</manifest>
MainActivity.kt
package com.example.ex7
import
android.annotation.Suppre
ssLint
import android.os.Bundle
import
android.widget.Toast
import
androidx.appcompat.app.A
```

ppCompatActivity

```
import
com.example.ex7.databindi
ng.ActivityMainBinding
import java.io.File
import
java.io.FileOutputStream
class MainActivity:
AppCompatActivity() {
  private lateinit var
binding:
ActivityMainBinding
  override fun
on Create (saved Instance Sta\\
te: Bundle?) {
super.onCreate(savedInsta
nceState)
    binding =
ActivityMainBinding.inflat
e(layoutInflater)
setContentView(binding.ro
ot)
binding.btnSave.setOnClic
kListener {
       val name =
binding.editName.text.toSt
ring().trim()
```

```
val marks =
binding.editMarks.text.toSt
ring().trim()
       if (name.isEmpty()
|| marks.isEmpty()) {
Toast.makeText(this,
"Please enter both fields",
Toast.LENGTH_SHORT).s
how()
      } else {
saveToSDCard(name,
marks)
  }
@SuppressLint("SetTextI1
8n")
  private fun
saveToSDCard(name:
String, marks: String) {
    try {
       val fileName =
"student_data.txt"
       val fileDir =
getExternalFilesDir(null)
// app-specific external
storage
       val file =
```

```
File(fileDir, fileName)
       val
fileOutputStream =
FileOutputStream(file,
true) // true for append
mode
       val data = "Name:
$name, Marks: $marks\n"
fileOutputStream.write(dat
a.toByteArray())
fileOutputStream.close()
binding.txtStatus.text =
"Saved to:
${file.absolutePath}"
    } catch (e: Exception) {
Toast.makeText(this,
"Error: ${e.message}",
Toast.LENGTH_LONG).sh
ow()
```

Activivty_main.xml

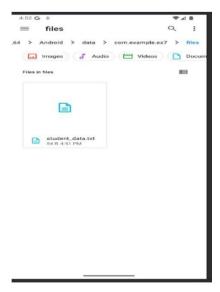
```
<?xml version="1.0"
encoding="utf-8"?>
<LinearLayout
xmlns:android="http://sche
mas.android.com/apk/res/a
ndroid"
android:layout_width="mat
ch_parent"
android:layout_height="ma
tch_parent"
  android:padding="20dp"
android:orientation="vertic
al"
android:gravity="center_ho
rizontal">
  <TextView
android:layout_width="wra
p_content"
android:layout_height="wr
ap_content"
    android:text="Student
Record Entry"
android:textSize="22sp"
android:textStyle="bold"
```

```
and roid: layout\_marginBott
om="20dp" />
  <EditText
android:id="@+id/editNam
e"
android:layout_width="mat
ch_parent"
android:layout_height="wr
ap_content"
     android:hint="Enter
Name" />
  <EditText
android:id="@+id/editMark
s"
android:layout_width="mat
ch_parent"
android:layout_height="wr
ap_content"
     android:hint="Enter
Marks"
android:inputType="numb
er" />
```

```
<Button
android:id="@+id/btnSave"
android:layout_width="wra
p_content"
android:layout_height="wr
ap_content"
    android:text="Save to
SD Card"
android:layout_marginTop
="20dp" />
  <TextView
android:id="@+id/txtStatus
android:layout_width="wra
p_content"
android:layout_height="wr
ap_content"
android:textColor="#4CAF
50"
android:layout_marginTop
="20dp"/>
</LinearLayout>
```

Output :







Result:

The Application developed using Android Studio was done.