EX.NO: 11	ANDROID APPLICATION - SD CARD WRITER

PROGRAM:-

MainActivity.kt

```kotlin
package com.example.sdcard

import android.content.ContentValues
import android.net.Uri
import android.os.Bundle
import android.provider.MediaStore
import android.widget.Button
import android.widget.Toast
import androidx.activity.ComponentActivity


class MainActivity : ComponentActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val writeButton = findViewById<Button>(R.id.buttonWrite)

        writeButton.setOnClickListener {
            writeToExternalStorage("Hello World!")
        }
    }

    private fun writeToExternalStorage(data: String) {
        val values = ContentValues().apply {
            put(MediaStore.Files.FileColumns.DISPLAY_NAME, "sample.txt")
```

```kotlin
            put(MediaStore.Files.FileColumns.MIME_TYPE, "text/plain")
            put(MediaStore.Files.FileColumns.RELATIVE_PATH, "Documents/MyAppFolder")
        }

        val uri: Uri? = contentResolver.insert(MediaStore.Files.getContentUri("external"), values)

        uri?.let {
            try {
                val outputStream = contentResolver.openOutputStream(it)
                outputStream?.write(data.toByteArray())
                outputStream?.close()
                Toast.makeText(this, "Data written to $it", Toast.LENGTH_LONG).show()
            } catch (e: Exception) {
                Toast.makeText(this, "Error: ${e.message}", Toast.LENGTH_LONG).show()
            }
        } ?: run {
            Toast.makeText(this, "Error creating file", Toast.LENGTH_LONG).show()
        }
    }
}
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:padding="16dp">

    <Button
        android:id="@+id/buttonWrite"
```
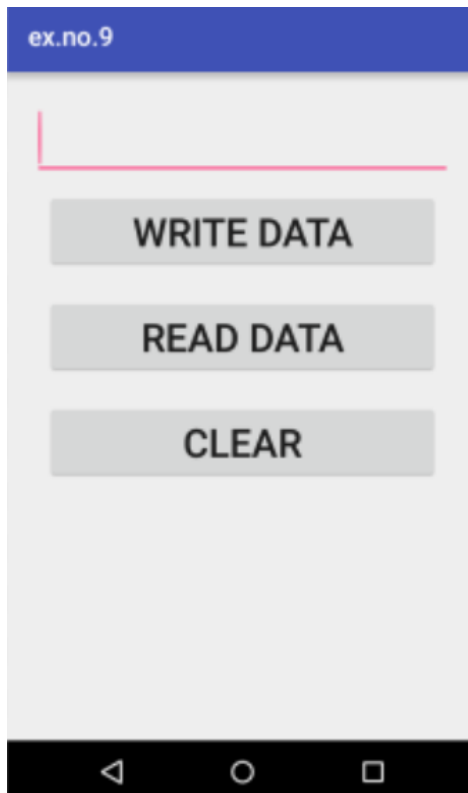
android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:text="Write to SD Card" />

</LinearLayout>

OUTPUT:-

RESULT:-

Thus the given program is executed successfully and output is verified