PRACTICAL 8

AIM: Create an android application that writes data to SD card.

CODE:

Android Manifest.xml

<uses-permission android:name = "android.permission.WRITE\_EXTERNAL\_STORAGE" />

<uses-permission android:name = "android.permission.READ\_EXTERNAL\_STORAGE" />

<uses-permission android:name = "android.permission.MANAGE\_EXTERNAL\_STORAGE" />

MainActivity.java

package com.example.practical\_8;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.app.ActivityCompat;  
import android.os.Bundle;  
import android.os.Environment;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
import java.io.File;  
import java.io.FileNotFoundException;  
import java.io.FileOutputStream;  
import java.io.IOException;  
public class MainActivity extends AppCompatActivity {  
 EditText name, phone, email, fileNameEditText;  
 Button saveBtn;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 name = findViewById(R.id.txtName);  
 phone = findViewById(R.id.txtPhone);  
 email = findViewById(R.id.txtEmail);  
 fileNameEditText = findViewById(R.id.txtFileName);  
 saveBtn = findViewById(R.id.btnSave);  
 saveBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String Name = name.getText().toString() + "\n";  
 String Phone = phone.getText().toString() + "\n";  
 String Email = email.getText().toString();  
 try {  
 ActivityCompat.requestPermissions(MainActivity.this, new

String[]{android.Manifest.permission.WRITE\_EXTERNAL\_STORAGE} , 1);  
 String fileName =  
 fileNameEditText.getText().toString();  
 File folder =

Environment.getExternalStoragePublicDirectory(Environment.DIRECTORY\_DOWNLOADS);  
 File myFile = new File(folder, fileName);  
 FileOutputStream fstream = new  
 FileOutputStream(myFile);  
 fstream.write(Name.getBytes());  
 fstream.write(Phone.getBytes());  
 fstream.write(Email.getBytes());  
 fstream.close();  
 Toast.makeText(getApplicationContext(), "Details Saved in " +

myFile.getAbsolutePath(),  
 Toast.LENGTH\_LONG).show();  
 } catch (FileNotFoundException e) {  
 e.printStackTrace();  
 } catch (IOException e) {  
 e.printStackTrace();  
 }  
}

activity\_main.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">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Store Data in SD card"  
 android:textStyle="bold"  
 android:textSize="25dp"  
 android:layout\_marginTop="50dp"  
 android:layout\_gravity="center"/>  
 <EditText  
 android:id="@+id/txtFileName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="150dp"  
 android:layout\_gravity="center"  
 android:hint="File Name"  
 android:ems="10" />  
 <EditText  
 android:id="@+id/txtName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:hint="Name"  
 android:ems="10"/>  
 <EditText  
 android:id="@+id/txtPhonse"  
 android:inputType="number"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:hint="Mobile"  
 android:layout\_gravity="center"  
 android:ems="10" />  
 <EditText  
 android:id="@+id/txtEmail"  
 android:inputType="textEmailAddress"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:hint="Email"  
 android:layout\_gravity="center"  
 android:ems="10" />  
 <Button  
 android:id="@+id/btnSave"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:text="Save" />  
</LinearLayout>

OUTPUT:

 