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package day1Practice;

import java.io.File;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.FileWriter;
import java.util.Scanner;

//creation of file
public class FileHandling
{
    public static void main(String args[])
    {
        File f0 = new File("C:Example:FilePractice.txt");
        try
        {
            if (f0.createNewFile())
            {
                System.out.println("File " + f0.getName() + " is created successfully.");
            }
            else
            {
                System.out.println("File is already exist in the directory.");
            }
        }
        catch (IOException exception)
        {
            System.out.println("An unexpected error is occurred.");
            exception.printStackTrace();
        }

        //Getting file details
        if (f0.exists())
        {
            System.out.println("The name of the file is: " + f0.getName());
            System.out.println("The absolute path of the file is: " + f0.getAbsolutePath());
            System.out.println("Is file writeable?: " + f0.canWrite());
            System.out.println("Is file readable " + f0.canRead());
        }
        else
        {
            System.out.println("The file does not exist.");
        }
    }
    //Write content into the file
    try
    {
        FileWriter fwrite = new FileWriter("C:Example:FilePractice.txt");
        // writing the content into the FilePractice.txt file
        fwrite.write("This is a project which is related to the files.....");

        // Closing the stream
        fwrite.close();
        System.out.println("Content is successfully wrote to the file.");
    }
    catch (IOException e)
    {
        System.out.println("Unexpected error occurred");
        e.printStackTrace();
    }
}

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}
//Read the content from the file
try
{
    // Create f1 object of the file to read data
    File f1 = new File("C:Example:FilePractice.txt");
    Scanner dataReader = new Scanner(f1);
    while (dataReader.hasNextLine())
    {
        String fileData = dataReader.nextLine();
        System.out.println(fileData);
    }
    dataReader.close();
}
catch (FileNotFoundException exception)
{
    System.out.println("Unexpected error occurred!");
    exception.printStackTrace();
}
//Deletion of created file
File f01 = new File("C:Example:FilePractice.txt");
if (f01.delete())
{
    System.out.println(f01.getName() + " file is deleted successfully.");
}
else
{
    System.out.println("Unexpected error found in deletion of the file.");
}
}

```