package FileHandling;

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileWriter;

import java.io.FileOutputStream;

import java.io.FileReader;

import java.io.IOException;

import java.nio.charset.StandardCharsets;

import java.nio.file.Files;

import java.nio.file.Paths;

import java.util.Collections;

import java.util.Iterator;

import java.util.List;

import java.util.Scanner;

public class FileHandling {

//Create and write to file

static void CreateWriteFile() throws IOException{

//create file

File file=new File("D:\\fileHandling\\FileHandling.txt");

// if(file.createNewFile())

// System.out.println("File is created named : FileHandling.txt");

// else

// System.out.println("File Already Exists");

//write to file

FileWriter writer= new FileWriter(file);

writer.write("Hello ! Third Project Creating File");

writer.close();

if(file.canWrite())

System.out.println("This content is write to file : Hello ! Third Project Creating File");

}

//read file

public static List<String> readFile(String fileName)

{

List<String> list= Collections.emptyList();

try {

list= Files.readAllLines(Paths.get(fileName), StandardCharsets.UTF\_8);

} catch (Exception e) {

e.printStackTrace();

}

return list;

}

//append to file

public static void AppendFile(String fileName, String str) throws IOException {

try {

BufferedWriter out = new BufferedWriter(new FileWriter("D:\\fileHandling\\FileHandling.txt", true));

out.write(str);

out.close();

}

catch (IOException e) {

System.out.println("exception occurred" + e);

}

}

//main method

public static void main(String[] args) throws IOException {

System.out.println("Enter your choice: 1.Write to File\t2.Read file\t3.Append to File");

Scanner sc= new Scanner(System.in);

int n= sc.nextInt();

if(n==1)

{

//Create-Write File

try {

CreateWriteFile();

} catch (IOException e) {

System.out.println(e);

}

}

else if(n==2)

{

//Read file

List<String> result= readFile("D:\\fileHandling\\FileHandling.txt");

Iterator<String> it= result.iterator();

System.out.println();

while(it.hasNext())

{

System.out.println(it.next());

}

}

else if(n==3)

{

//Append file

String data="\nWelcome to MPhasis Full Stack Development\n";

AppendFile("D:\\fileHandling\\FileHandling.txt", data);

Scanner scan= new Scanner(System.in);

System.out.println("Enter string to append : ");

String data1= scan.next();

AppendFile("D:\\fileHandling\\FileHandling.txt", data1);

scan.close();

//printing file content again

System.out.println();

System.out.println("Content after append string : ");

try {

System.out.println();

FileReader fr=new FileReader("D:\\fileHandling\\FileHandling.txt");

BufferedReader br=new BufferedReader(fr);

int i;

while((i=br.read())!=-1){

System.out.print((char)i);

}

System.out.println();

} catch (IOException e) {

System.out.println(e);

}

}

sc.close();

}

}