**Project Objective**

As a developer, write a program to read, write, and append to a file.

**Problem Statement**

As a developer, write a Java code to read, write, and append to a file.

**Source Code**

package com.org.filehandling;

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.util.Scanner;

public class FileHandling {

public static void readfile() throws IOException

{

Scanner s=new Scanner(System.in);

try

{

String fname;

System.out.println("Enter file name:");

fname=s.nextLine();

File file=new File("D:\\FileDemo\\"+fname);

int i;

//checking whether the filename provided by the user is present or not

if(file.exists())

{

FileReader reader=new FileReader(file);

//reading file

while((i=reader.read())!=-1)

{

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

}

System.out.println("\n");

reader.close();

}

else

{

System.out.println("File not found");

}

}

catch (Exception e) {

e.printStackTrace();

}

}

public static void writefile() throws IOException

{

Scanner s1=new Scanner(System.in);

try

{

String fname1;

System.out.println("Enter file name:");

fname1=s1.nextLine();

String overwrite;

File file1=new File("D:\\FileDemo\\"+fname1);

//checking whether the filename provided by the user is present or not

if(file1.exists())

{

FileWriter writer=new FileWriter(file1);

System.out.println("Enter text to overwrite:");

overwrite=s1.nextLine();

//overwriting file

writer.write(overwrite);

writer.close();

System.out.println("File Overwritten, please check");

}

else

{

System.out.println("File not found");

}

}

catch (Exception e) {

e.printStackTrace();

}

}

public static void append() throws IOException

{

Scanner s2=new Scanner(System.in);

try

{

String fname2;

System.out.println("Enter file name:");

fname2=s2.nextLine();

String text;

File file2=new File("D:\\FileDemo\\"+fname2);

//checking whether the filename provided by the user is present or not

if(file2.exists())

{

FileWriter append=new FileWriter(file2,true);

BufferedWriter ap=new BufferedWriter(append);

System.out.println("Enter text to be appended at the end of the file:");

text=s2.nextLine();

//appending text at the end of the file

ap.write(text);

ap.close();

System.out.println("File Appended, please check");

}

else

{

System.out.println("File not found");

}

}

catch (Exception e) {

e.printStackTrace();

}

}

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

try

{

int c;

//do-while loop used to loop switch cases over and over unless user inputs 4

do

{

System.out.println("\nFile Handling\n");

System.out.println("-----Menu-----\n1.Read a file\n2.Write a file\n3.Append a file\n4.Exit");

System.out.println("Enter your choice: ");

c=sc.nextInt();

switch(c)

{

case 1:

//calling readfile() method

try {

readfile();

} catch (Exception e) {

e.printStackTrace();

}

break;

case 2:

//calling writefile() method

try {

writefile();

} catch (Exception e) {

e.printStackTrace();

}

break;

case 3:

//calling append method

try {

append();

} catch (Exception e) {

e.printStackTrace();

}

break;

case 4:

//Closing switch case

System.out.println("Exited");

break;

default:

System.out.println("Please enter a valid choice");

break;

}

}while(c!=4);

}

catch (Exception e) {

e.printStackTrace();

}

finally {

sc.close();

}

}

}