CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

Chandubhai S Patel Institute of Technology

U & P U. Patel Department of Computer Engineering

Subject Name: JAVA Subject Code: CE251

Semester: 3rd Academic Year: 2022-23

Assignment 5

GitHub repository link:

WAP to show how to create a file with different mode and 1. methods of File class to find path, directory etc. Name :-Aswani darsh Code: // Roll-no :-21ce006 import java.io.File; public class prec5 1 { public static void main(String[] args) { File f = new File("1.txt"); System.out.println("File name : "+f.getName()); System.out.println("Path : "+f.getPath()); System.out.println("Absolute path : "+f.getAbsolutePath()); System.out.println("Parent : "+f.getParent()); System.out.println("Existance of file : "+f.exists()); if(f.exists()) System.out.println("can we write? : "+f.canWrite()); System.out.println("readable? : "+f.canRead()); System.out.println("Is a directory : "+f.isDirectory()); System.out.println("File Size(bytes) : "+f.length()); System.out.println("This program is created by Darsh Aswani 21ce006");

```
Outpu
         File name : 1.txt
         Path: 1.txt
t:
         Absolute path : E:\Darsh\java\Practicle_file\DarshAssignment5\1.tx
         Parent : null
         Existance of file: true
         can we write? : true
         readable? : true
         Is a directory : false
         File Size(bytes) : 38
         This program is created by Darsh Aswani 21ce006
2.
         When to use Character Stream over Byte Stream? When to use
         Byte Stream over Character Stream? Give example.
Code:
         1.
         // Name :-darsh aswani
         // Roll-no :-21ce006
        import java.io.*;
        public class prec5_2_1 {
             public static void main(String[] args) throws IOException {
                 FileReader source = null;
                try {
                    source = new FileReader("1.txt");
                     int temp;
                    while ((temp = source.read()) != -1)
                         System.out.print((char) temp);
                    System.out.println("\nThis program is created by Darsh
         Aswani 21ce006");
                finally {
                    if (source != null)
                        source.close();
         2.
           Name :-Darsh aswani
         // Roll-no :-21ce006
         import java.io.*;
         public class prec5 2 2 {
             public static void main(String[] args) throws IOException
                FileInputStream sourceStream = null;
                FileOutputStream targetStream = null;
```

```
try
                     sourceStream = new FileInputStream("1.txt");
                     targetStream = new FileOutputStream("2.txt");
                     int temp;
                     while ((temp = sourceStream.read()) != -1)
                        targetStream.write((byte)temp);
                     System.out.println("\nThis program is created by Darsh
         Aswani 21ce006");
                 finally
                     if (sourceStream != null)
                         sourceStream.close();
                     if (targetStream != null)
                        targetStream.close();
Outpu
t:
         Darsh Aswani Here Nice To meet you!...
```

This program is created by Darsh Aswani 21ce0 06
PS E:\Darsh\java\Practicle_file\DarshAssignme

```
acticle_file > DarshAssignment5 > ≣ 1.txt

1 Darsh Aswani Here Nice To meet you!...
```

2.

```
acticle_file > DarshAssignment5 > ≡ 1.txt
1 Darsh Aswani Here Nice To meet you!...
```

```
Practicle_file > DarshAssignment5 > ≡ 2.txt

1 Darsh Aswani Here Nice To meet you!...
```

```
Copy File 1's content in File 2.
         Write a program to transfer data from one file to another file so
3.
         that if the destination file does not exist, it is created.
Code:
         // Name :-Aswani Darsh
         // Roll-no :-21ce006
         import java.io.*;
         public class prec5 3 {
             public static void main(String[] args) throws IOException {
                 FileInputStream in = null;
                 FileOutputStream out = null;
                 try {
                     in = new FileInputStream("1.txt");
                     out = new FileOutputStream("3.txt");
                     int c;
                     while ((c = in.read()) != -1) {
                         out.write(c);
                     System.out.println("\nThis program is created by Darsh
         Aswani 21ce006");
                 catch(IOException ie) {
                 finally {
                     if (in != null) {
                         in.close();
                     if (out != null) {
                         out.close();
Outpu
         This program is created by Darsh Aswani 21ce006
t:
         Practicle_file > DarshAssignment5 > ≡ 3.txt
```

Darsh Aswani Here Nice To meet you!...

Past

Clipbo

```
acticle_file > DarshAssignment5 > ≡ 1.txt
     Darsh Aswani Here Nice To meet you!...
```

WAP to show use of character and byte stream. 4.

Code:

```
// Name :-Aswani DArsh
// Roll-no :-21ce006
import java.io.*;
public class prec5_4_1 {
    public static void main(String[] args) {
        FileReader reader = null;
        try {
            reader = new FileReader("1.txt");
            int fChar;
            while ((fChar = reader.read()) != -1) //read char by
            System.out.print((char)fChar); //write char char
            System.out.println("\nThis program is created by Darsh
Aswani 21ce006");
        catch(Exception e){
            System.out.println(e);
```

2.

```
// Name :-Aswani darsh
// Roll-no :-21ce006
import java.io.*;
public class prec5_4_2 {
    public static void main(String[] args) {
        FileInputStream fis = null;
        FileOutputStream fos = null;
        try {
            fis = new
                    FileInputStream("1.txt");
            fos = new FileOutputStream
                    ("4.txt");
            int temp;
            while ((temp = fis.read()) != -1) //read byte by byte
```

```
fos.write((byte)temp); //write byte by byte
                   if (fis != null)
                      fis.close();
                   if (fos != null)
                      fos.close();
                   System.out.println("\nThis program is created by Darsh
        Aswani 21ce006");
               catch(Exception e){
                   System.out.println(e);
Outpu
t:
        Darsh Aswani Here Nice To meet you!...
        This program is created by Darsh Aswani 21ce0
        PS E:\Darsh\java\Practicle_file\DarshAssignme
        Darsh Aswani Here Nice To meet you!...
        2.
        acticle_file > DarshAssignment5 > ≡ 1.txt
             Darsh Aswani Here Nice To meet you!...
        2.
        Practicle_file > DarshAssignment5 > ≡ 4.txt
               Darsh Aswani Here Nice To meet you!...
5.
        Write a program to enter any 15 numbers from the user and
        store only even numbers in a file named "Even.txt". And display
        the contents of this file on the console. (BufferedReader /
        BufferedWriter).
        // Name :-Aswani Darsh
Code:
        // Roll-no :-21ce006
```

```
import java.util.*;
import java.io.*;
public class prec5_5 {
    public static void main(String[] args) throws IOException
        BufferedReader br = null;
        BufferedWriter bw = null;
        FileReader in = null;
        FileWriter out = null;
        String filelocation = "Even.txt";
        File file = new File(filelocation);
        try
            out= new FileWriter("Even.txt");
            bw= new BufferedWriter(out);
            ArrayList<Integer> num = new ArrayList<Integer>(15);
            System.out.println("Enter 15 Numbers : ");
            for(int i=0;i<15;i++)
                Scanner sc= new Scanner(System.in);
                num.add(sc.nextInt());
            for(int i=0;i<15;i++)</pre>
                if(((num.get(i))%2==0))
                    bw.write(num.get(i));
            }bw.close();
            int abc;
            in= new FileReader("Even.txt");
            br= new BufferedReader(in);
            System.out.println("");
            System.out.println("Now Printing Even Numbers
fromEven.txt ...");
            while ((abc=br.read())!=-1)
                System.out.println((abc));
            System.out.println("\nThis program is created by Darsh
Aswani 21ce006");
        catch(Exception e)
            System.out.println(" Some exception are founf ! Please
entered valid integer!!! ");
```

```
finally
                      if (br != null)
                          br.close();
         Enter 15 Numbers :
Outpu
         1
2
3
4
5
6
7
8
9
10
t:
         11
         12
         13
         14
         15
         19
         20
         21
         22
         Now Printing Even Numbers fromEven.txt ...
         2
4
6
8
         10
         18
         20
         22
         This program is created by Darsh Aswani 21ce0
```

6

```
WAP to demonstrate methods of wrapper class.
6.
Code:
        // Name :-Aswani Darsh
         // Roll-no :-21ce006
        public class Prec5 6 {
            public static void main(String[] args) {
                System.out.println("Method 1 :-");
                int a = 129;
                Integer i = Integer.valueOf(a);
                Integer j = a;
                System.out.println(a + " " + j + " " + i);
                System.out.println("\nMethod 2 :-");
                Integer x = Integer.valueOf(150);
                Integer y = x;
                Integer z = x;
                System.out.println(x + " " + y + " " + z);
                System.out.println("\nThis program is created by Darsh
        Aswani 21ce006");
         Method 1 :-
Outpu
        129 129 129
t:
         Method 2 :-
         150 150 150
        This program is created by Darsh Aswani 21ce006
```