**CHALLENGE 1: File creation**

/\*\*

@author: Chanpreet

@application: creating the file

@date: 28 March,2023

@time:3.00 pm

\*/

// import all the classes

import java.io.\*;

public class fileCreate

{

    public static void main(String args[])

    {

        File obj= new File("C:\\Users\\ssuri\\Desktop\\java programming\\File.txt");

        // using try and catch block.

        try{

            if(obj.createNewFile())

            {

                 System.out.println("File Created:" +obj.getName());

            }

            else{

                System.out.println("File Already exists");

            }

        }

        catch(Exception e)

        {

            System.out.println(e);

        }

    }

}

**CHALLENGE 2: WRITING ON FILE**

/\*\*

@author: Chanpreet

@application:  write on the file

@date: 28 March,2023

@time:3.00 pm

\*/

// import all the classes

import java.io.\*;

public class fileWrite

{

    public static void main(String[] args)

    {

        // using try and catch block.

    try{

         FileWriter obj= new FileWriter("C:\\Users\\ssuri\\Desktop\\java programming\\File.txt");

        obj.write("Hi, My name is Chanpreet.");

        System.out.println("Data is successfully added to the file");

        obj.close();

    }

    catch(Exception e)

        {

            System.out.println(e);

        }

    }

}

**CHALLENGE 3: READING THE FILE:**

/\*\*

@author: Chanpreet

@application: read on the file

@date: 28 March,2023

@time:3.00 pm

\*/

// import all the classes

import java.io.\*;

public class fileRead

{

    public static void main(String args[])

    {

         // using try and catch block.

        try{

            FileReader obj= new FileReader("C:\\Users\\ssuri\\Desktop\\java programming\\File.txt");

          try{

              int i;

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

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

              }

        }

        finally{

            obj.close();

            System.out.println("File closed");

        }

        }

        catch(Exception e)

        {

            System.out.println(e);

        }

    }

}

**CHALLENGE 4: Getting file information and deleting the file**

/\*\*

@author: Chanpreet

@application: Check the name, size, path of the file along with is the file readable. Deleting the file.

@date: 28 March,2023

@time:3.00 pm

\*/

// import all the classes

import java.io.\*;

public class fileInfo

{

    public static void main(String args[])

    {

        File obj= new File("C:\\Users\\ssuri\\Desktop\\java programming\\File.txt");

        // using if-else statement

        if(obj.exists())

        {

            System.out.println("Name of the file: " +obj.getName());

            System.out.println("Path of the file: " +obj.getAbsolutePath());

            System.out.println("Length of the file: " +obj.length());

            System.out.println("File is readable: " +obj.canRead());

            System.out.println("File Write: " +obj.canWrite());

            System.out.println("File is deleted: " +obj.delete());

        }

        else{

             System.out.println("File does not exist.");

        }

    }

}

**OUTPUT OF ALL CHALLENGES:**

**A screenshot of a computer

Description automatically generated**