**Practice Project - Assisted**

Write a program in Java to create a file

**import** java.io.File;

**import** java.io.FileOutputStream;

**import** java.io.FileWriter;

**import** java.io.IOException;

**import** java.nio.charset.StandardCharsets;

**import** java.nio.file.Files;

**import** java.nio.file.Paths;

**import** java.nio.file.StandardOpenOption;

**import** java.util.Arrays;

**import** java.util.List;

**public** **class** CreateNewFile

{

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

{

*createFileUsingFileClass*();

*createFileUsingFileOutputStreamClass*();

*createFileIn\_NIO*();

}

**private** **static** **void** createFileUsingFileClass() **throws** IOException

{

File file = **new** File("D://temp//testFile1.txt");

//Create the file

**if** (file.createNewFile()){

System.***out***.println("File is created!");

}**else**{

System.***out***.println("File already exists.");

}

//Write Content

FileWriter writer = **new** FileWriter(file);

writer.write("Test data");

writer.close();

}

**private** **static** **void** createFileUsingFileOutputStreamClass() **throws** IOException

{

String data = "Test data";

FileOutputStream out = **new** FileOutputStream("D://temp//testFile2.txt");

out.write(data.getBytes());

out.close();

}

**private** **static** **void** createFileIn\_NIO() **throws** IOException

{

String data = "Test data";

Files.*write*(Paths.*get*("D://temp//testFile3.txt"), data.getBytes());

List<String> lines = Arrays.*asList*("1st line", "2nd line");

Files.*write*(Paths.*get*("file6.txt"),

lines,

StandardCharsets.***UTF\_8***,

StandardOpenOption.***CREATE***,

StandardOpenOption.***APPEND***);

}

}

Write a program in Java to read a file

**import** java.util.\*;

**import** java.nio.charset.StandardCharsets;

**import** java.nio.file.\*;

**import** java.io.\*;

**public** **class** ReadFile

{

**public** **static** List<String> readFile(String fileName)

{

List<String> lines = Collections.*emptyList*();

**try**

{

lines =

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

}

**catch** (IOException e)

{

e.printStackTrace();

}

**return** lines;

}

**public** **static** **void** main(String[] args)

{

List l = *readFile*("D://temp//testFile2.txt");

Iterator<String> itr = l.iterator();

**while** (itr.hasNext())

System.***out***.println(itr.next());

}

}

Write a program in Java to update a file

**import** java.io.BufferedReader;

**import** java.io.File;

**import** java.io.FileReader;

**import** java.io.FileWriter;

**import** java.io.IOException;

**public** **class** UpdateFile

{

**static** **void** modifyFile(String filePath, String oldString, String newString)

{

File fileToBeModified = **new** File(filePath);

String oldContent = "";

BufferedReader reader = **null**;

FileWriter writer = **null**;

**try**

{

reader = **new** BufferedReader(**new** FileReader(fileToBeModified));

String line = reader.readLine();

**while** (line != **null**)

{

oldContent = oldContent + line + System.*lineSeparator*();

line = reader.readLine();

}

String newContent = oldContent.replaceAll(oldString, newString);

writer = **new** FileWriter(fileToBeModified);

writer.write(newContent);

}

**catch** (IOException e)

{

e.printStackTrace();

}

**finally**

{

**try**

{

reader.close();

writer.close();

}

**catch** (IOException e)

{

e.printStackTrace();

}

}

}

**public** **static** **void** main(String[] args)

{

*modifyFile*("D://temp//testFile2.txt", "85", "95");

System.***out***.println("done");

}

}

Write a program in Java to delete a file

**import** java.io.IOException;

**import** java.nio.file.\*;

**public** **class** DeleteFile

{

**public** **static** **void** main(String[] args)

{

**try**

{

Files.*deleteIfExists*(Paths.*get*("D://temp//testFile2.txt"));

}

**catch**(NoSuchFileException e)

{

System.***out***.println("No such file/directory exists");

}

**catch**(DirectoryNotEmptyException e)

{

System.***out***.println("Directory is not empty.");

}

**catch**(IOException e)

{

System.***out***.println("Invalid permissions.");

}

System.***out***.println("Deletion successful.");

}

}