



<Medical File Tagging Program – 2016>

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A Console Application

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## INFT8F2H2 - PROGRAMMING MEDICAL INFORMATICS SYSTEMS

ASSIGNMENT 01 : SOFTWARE : MEDICAL FILE TAGGING PROGRAM - 2016

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This document serves as documentation / an overview of the Software developed as part of Assignment 01 of this module. It includes an “About” of this program, the Technologies Used, Sample Run of Program, Source Code, & About the Programmer.

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# INFT8F2H2 - PROGRAMMING MEDICAL INFORMATICS SYSTEMS

ASSIGNMENT 01 : SOFTWARE : MEDICAL FILE TAGGING PROGRAM - 2016

## ABOUT : MEDICAL FILE TAGGING PROGRAM – 2016 . . .

### WHAT IS IT?

The Medical File Tagging Program - 2016 is a software used to tag keywords that are found in a text file. The program reads-in a text file, for example, a medical journal article, Doctor's notes and finds pre-defined keywords and tags them. The pre-defined keywords are read from another text file. This program was created by the programmer, as part of a Medical Informatics Programming course at the University of KwaZulu-Natal Nelson R Mandela School of Medicine campus in South Africa in the year 2016.

### NOTE

#### INPUT :

Sample Medical Text File can be found here :

- o medicalinputfiles\sampleinputtxtfile.txt

Sample Medical Keywords Text File can be found here :

- o medicalinputfiles\sampleinputtermsfile.txt

#### OUTPUT :

##### DIRECTORY :

- o Output file/s are stored in the "medicaloutputfiles" directory.
- o If the "medicaloutputfiles" directory does not exist, the program will create this directory - for the first run of this program.
- o Subsequent runs of the program will store output files onto this directory.

##### FILE/S :

- o The user is prompted for the output file name. If the file name already exists in the "medicaloutputfiles" directory, the program continues to prompt the user for a unique file name.

## ABSTRACT

This document serves as documentation / an overview of the Software developed as part of Assignment 01 of this module. It includes an "About" of this program, the Technologies Used, Sample Run of Program, Source Code, & About the Programmer.

## CONTACT

o If you would like more info about the Medical File Tagging Program,  
or require free support for this program, please contact the programmer  
at <http://www.zakiasalod.weebly.com> or [zakia.salod@gmail.com](mailto:zakia.salod@gmail.com)

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## TECHNOLOGIES USED . . .

- ✓ Programming Language : Java
- ✓ Integrated Development Environment (IDE) : Eclipse LUNA
- ✓ JRE : 1.7
- ✓ JDK : 1.7

## SAMPLE RUN OF PROGRAM . . .

### INPUT

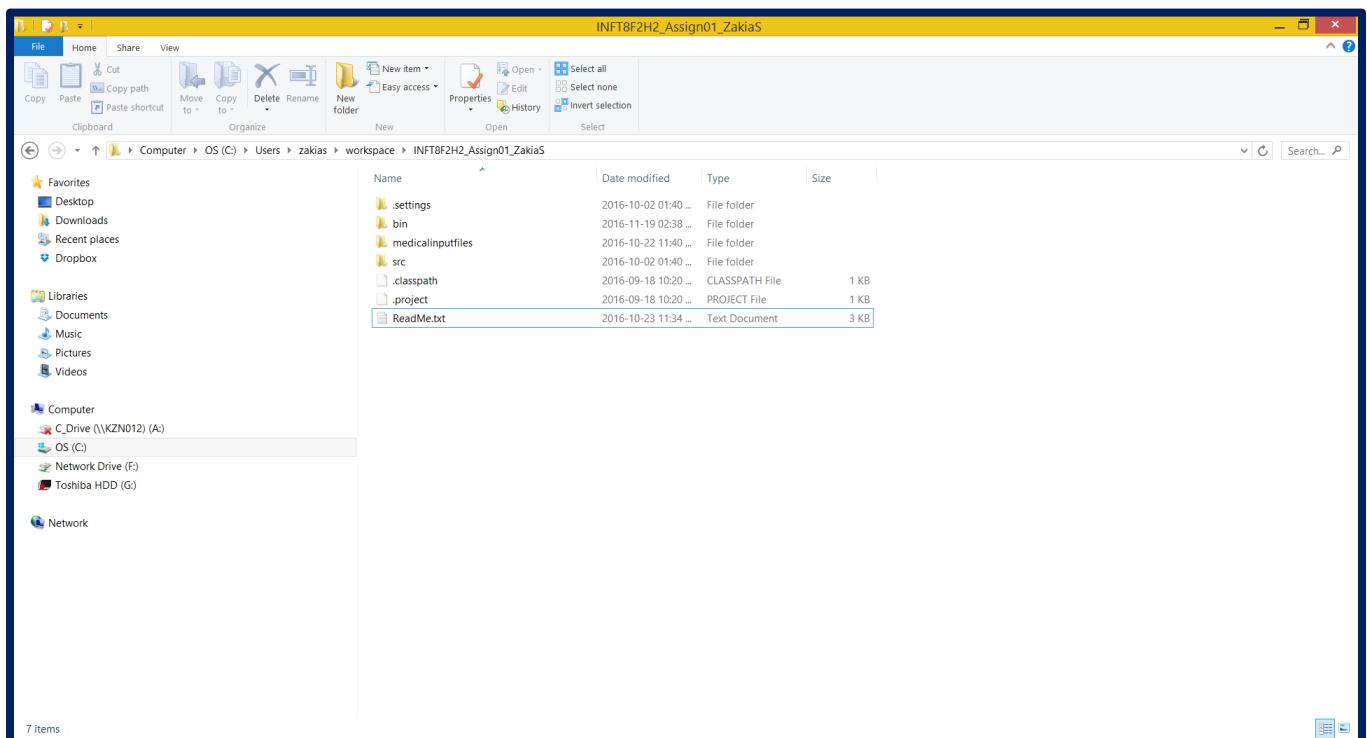
MEDICALINPUTFILES\SAMPLEINPUTTERMSFILE.TXT

Human immunodeficiency virus, tuberculosis, population, disease, virus

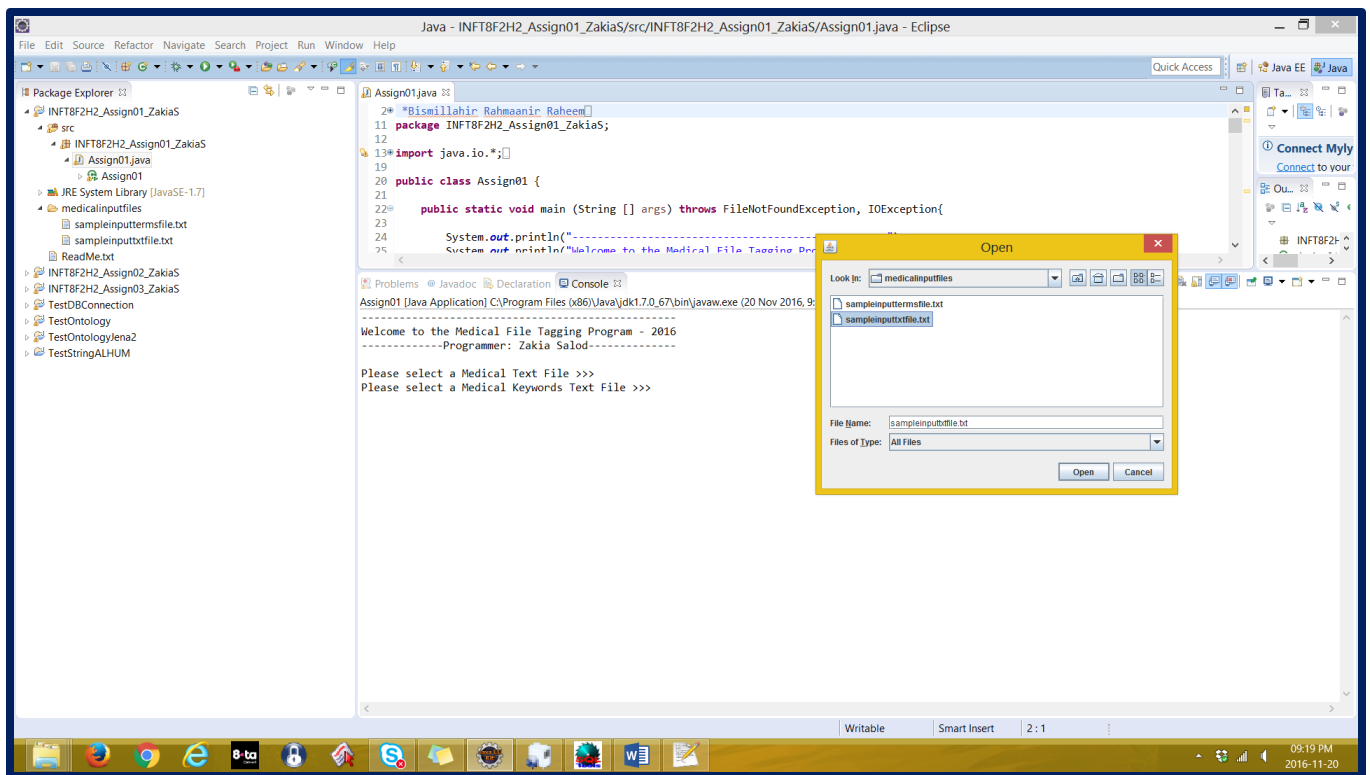
MEDICALINPUTFILES\SAMPLEINPUTTXTFILE.TXT

The Human immunodeficiency virus (HIV), tuberculosis and malaria together form a triple burden of disease for resource poor countries like those in Africa. There are currently almost 5.6 million people infected with HIV in South Africa, which is approximately 11% of the South African population.

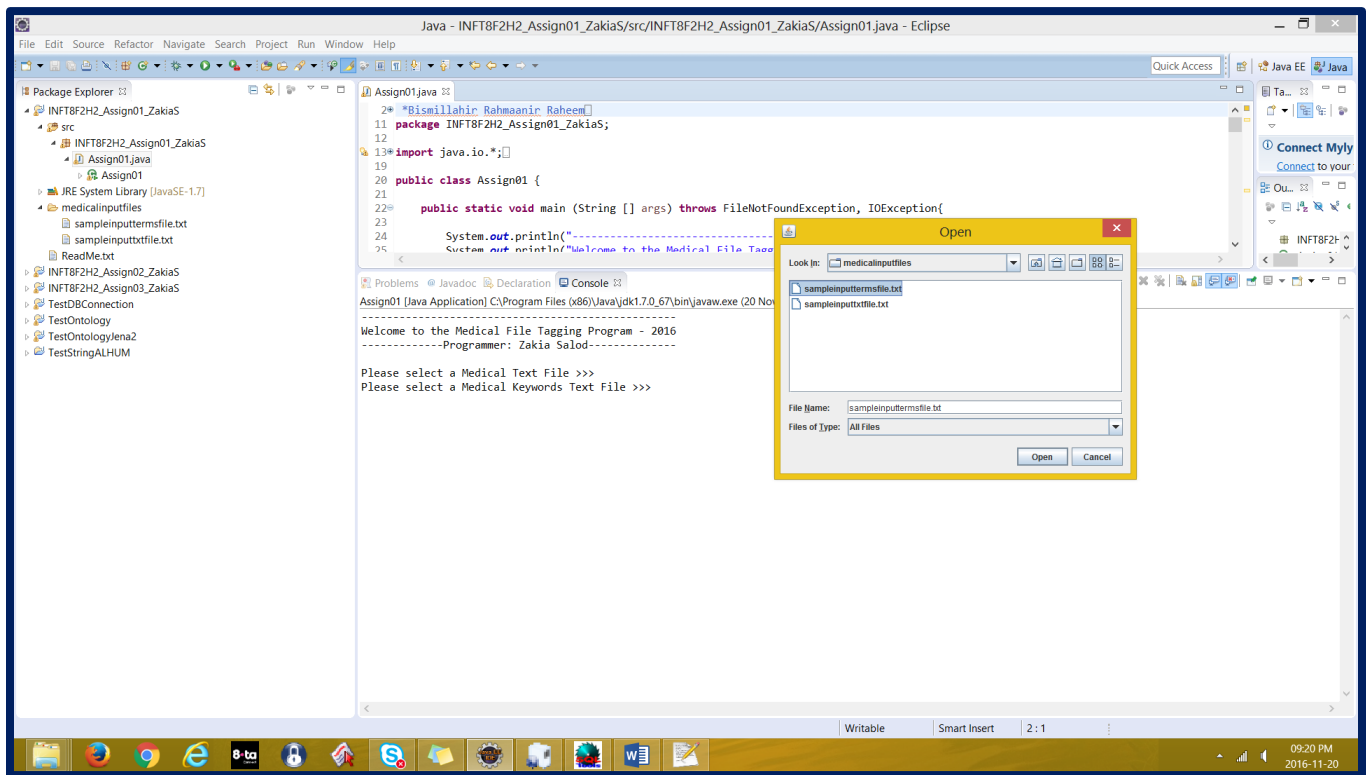
### BEFORE



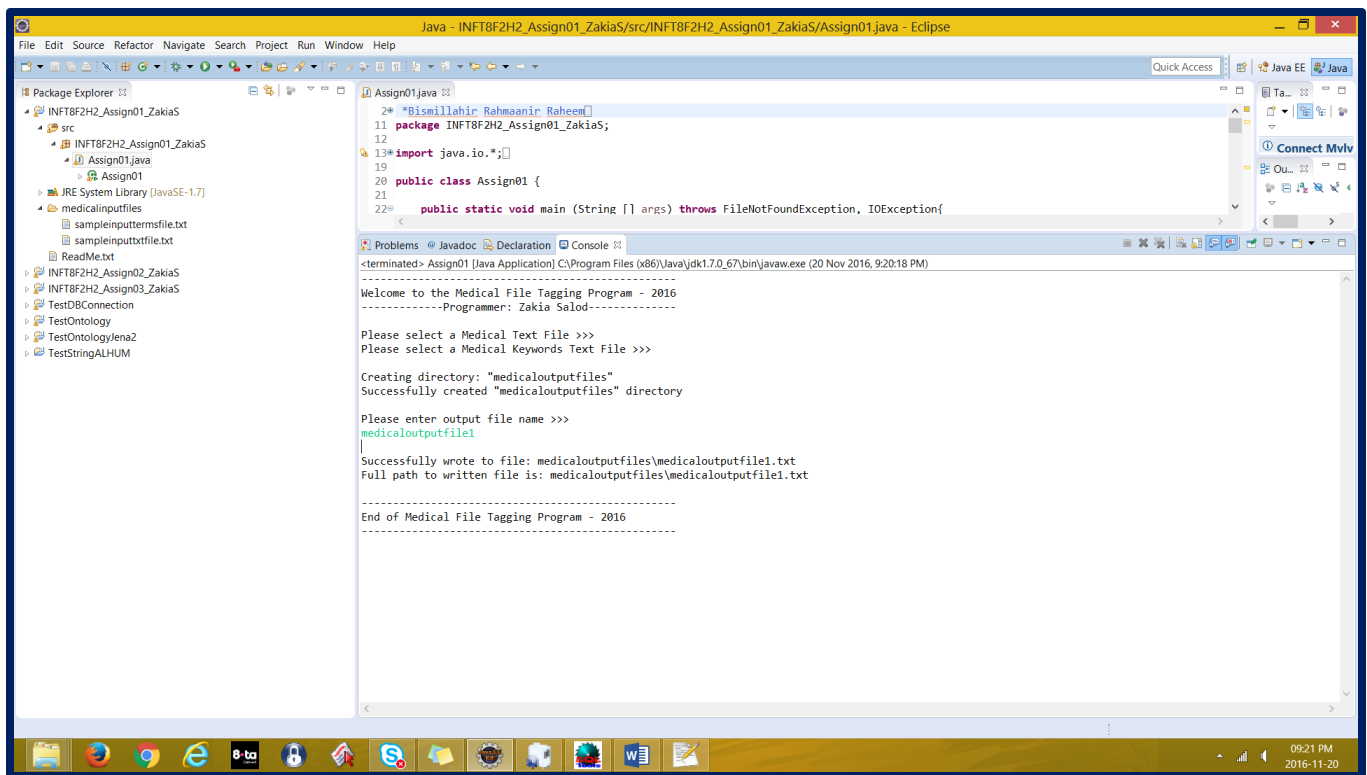
### JOURNAL



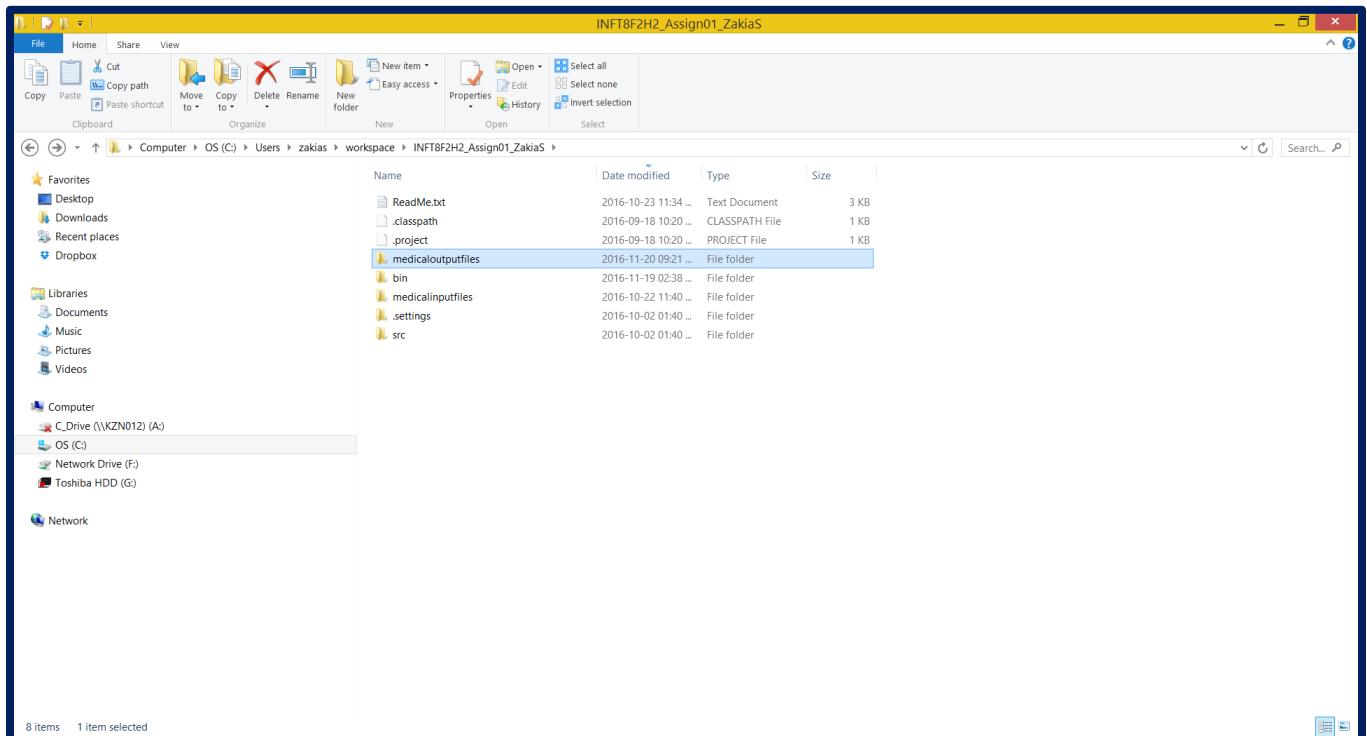
Click 'Open' on the 'Open' modal dialog box



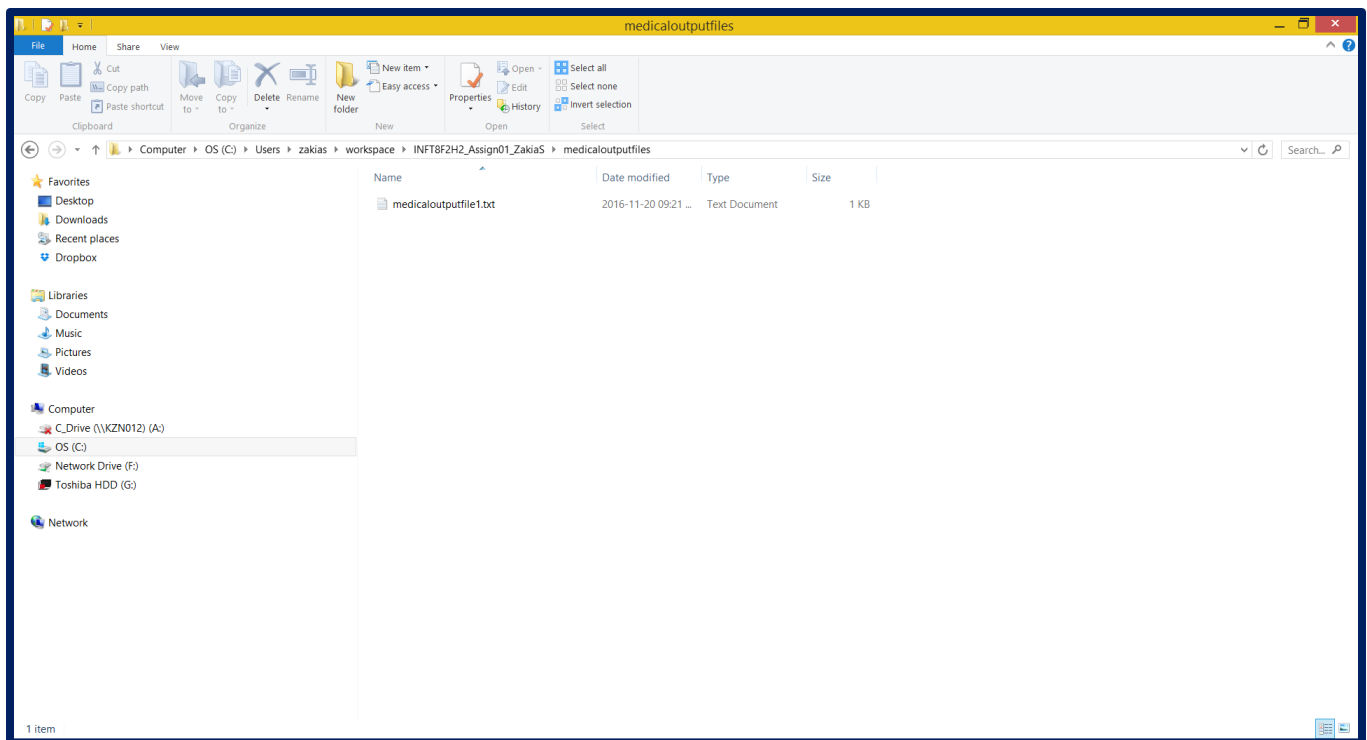
Click 'Open' on the 'Open' modal dialog box



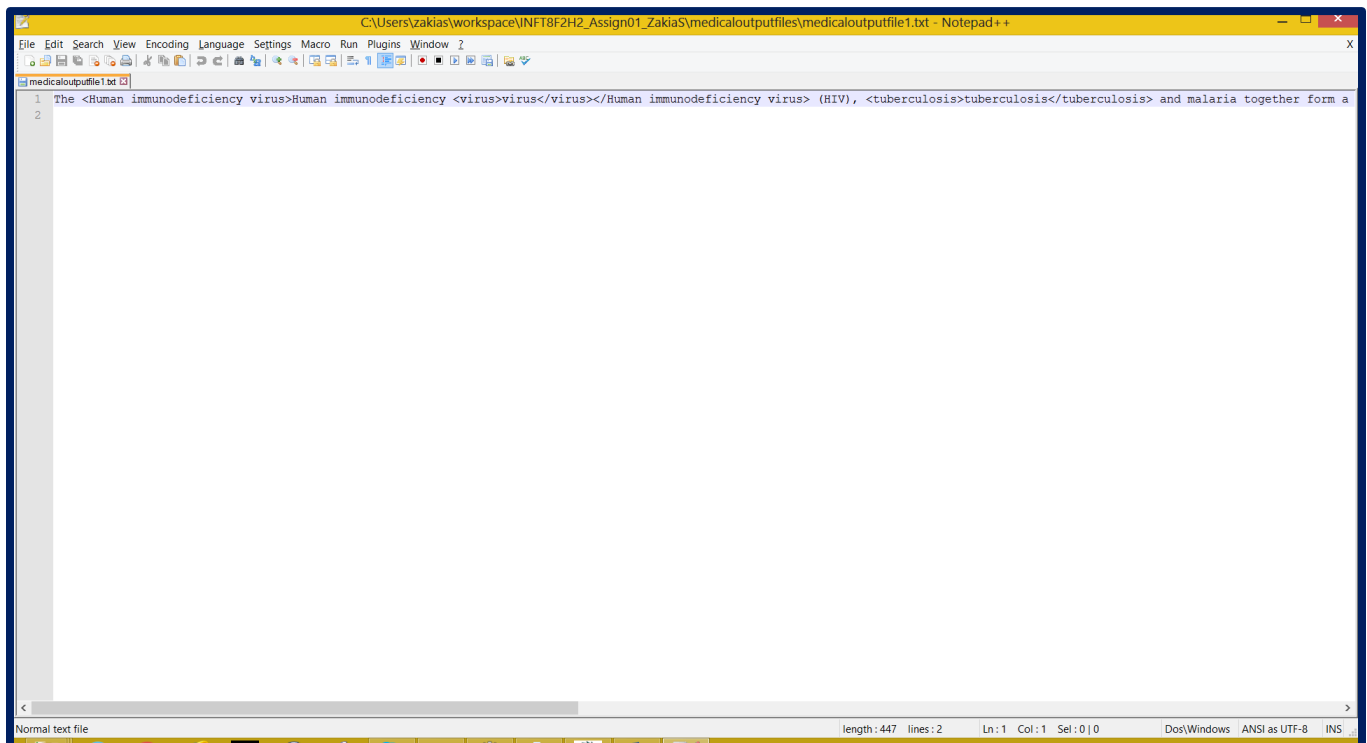
## AFTER



Click 'medicaloutputfiles'



**Open 'medicaloutputfile1.txt'**



**Full-text copy-pasted from above file :**

The <Human immunodeficiency virus>Human immunodeficiency <virus>virus</virus></Human immunodeficiency virus> (HIV), <tuberculosis>tuberculosis</tuberculosis> and malaria together form a triple burden of <disease>disease</disease> for resource poor countries like those in Africa. There are currently almost 5.6 million people infected with HIV in South Africa, which is approximately 11% of the South African <population>population</population>.



# ASSIGN01.JAVA

[illegible]

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        System.out.println("\nPlease enter output file name >>>
");

Scanner getOutputFileName = new Scanner(System.in);
outputFileName = getOutputFileName.nextLine();
File targetOutputTxtFile;
boolean uniqueOutputFileName = true;

        targetOutputTxtFile = new
File(medicalOutputDir+"/"+outputFileName.trim()+".txt");

        while (targetOutputTxtFile.exists()){
            uniqueOutputFileName = false;
            System.out.println("Target text file: " +
targetOutputTxtFile + " already exists");
            System.out.println("Please enter a different
output file name >>> ");
            outputFileName = getOutputFileName.nextLine();
            targetOutputTxtFile = new
File(medicalOutputDir+"/"+outputFileName.trim()+".txt");

            if(!targetOutputTxtFile.exists()){
                uniqueOutputFileName = true;
            }//end if
        }//end while

if (uniqueOutputFileName == true) {
    PrintWriter output = null;

    try{
        output = new PrintWriter(targetOutputTxtFile);
        output.println(strInput1);

        System.out.println("\nSuccessfully wrote to file: "
+ targetOutputTxtFile);

        System.out.println("Full path to written file is: "
+ targetOutputTxtFile);

        System.out.println();
    }//end try
    catch(FileNotFoundException e){
        e.printStackTrace();
    }//end catch
    finally{
        //close the file

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        if (output !=null)
            output.close();

        }//end finally
    }//end if
}//end if
}//end try
catch(FileNotFoundException e){
    e.printStackTrace();
}//end catch
finally{
    //close the files
    if (input1 !=null)
        input1.close();
    if (input2 !=null)
        input2.close();

    System.out.println("-----");
    -----");
    System.out.println("End of Medical File Tagging Program -
2016");
    System.out.println("-----");
    -----");
    }//end finally
    }//end if
    }//end main()
}//end class Assign01

```

## ABOUT THE PROGRAMMER . . .

Zakia Salod was born on December 24th 1989 in Durban. She is currently studying full-time towards her Masters in Medical Science Medical Informatics degree at the faculty of Health Sciences at UKZN. She is also working full-time as a Software Developer at a software company, 2Cana Solutions in La Lucia Ridge, Durban – on the Momentum medical aid system.

She graduated with a BSc in Computer Science and IS&T at UKZN in 2010. She had also graduated with a BCom IT Honours (Cum Laude) degree at UKZN in 2011, with first position in her degree from both Westville and Pietermaritzburg campuses.

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