Following are the results for training data and test data:

```
Microsoft Windows [Version 6.3.9600]
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C:\Users\harshjain\cd C:\Users\harshjain\Desktop\Question4

C:\Users\harshjain\Desktop\Question4\cd C:\Users\harshjain\Desktop\Question4\SourceCode

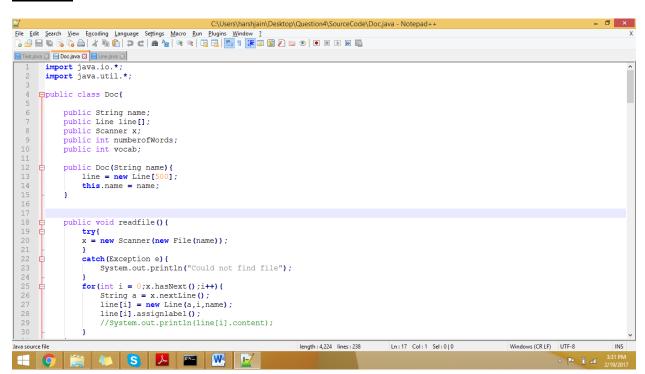
C:\Users\harshjain\Desktop\Question4\SourceCode\javac *.java

C:\Users\harshjain\Desktop\Question4\SourceCode\java Test
Accuracy for train data is 96.8944099378882%.

Accuracy for test data is 83.16831683168317%.
```

Three classes created to implement the text classification: Doc.class, Line.class and Test.class. SourceCode attached in zip file. Following is the code screenshot:

Doc.class



Line.class

```
C:\Users\harshjain\Desktop\Question 4\Source Code\Line.java-Notepad++
                                                                                                                                                         _ 🗇 ×
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
💾 Test,java 🗵 📙 Doc.java 🗵 🗎 Line java 🗵
       import java.io.*;
import java.util.*;
   4 ⊟public class Line{
             public String content;
             public String words[];
            public int LineNumber;
public String label_original;
 10
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30
            public String label_new;
             public Scanner getlabels;
             public String docname;
            public Line(String content, int LineNumber, String docname){
                  this.content = content;
                  this.LineNumber = LineNumber;
                 this.docname = docname;
                 words = content.split(" "):
            public void assignlabel(){
             if(docname=="traindata.txt"){
                  try{
                                                                           length: 1,191 lines: 78
                                                                                                   Ln:1 Col:1 Sel:0|0
                                                                                                                                   Windows (CR LF) UTF-8
                 ; 🥒 S 🟃 🔤 W 🕞
```

Test.class

