CD MINI_PROJECT

Topic:

Lexical Analyzer
For
HTML TAGS

Team:

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INTRODUCTION:

Lexical analysis is the process of analyzing a stream of individual characters (normally arranged as lines), into a sequence of lexical tokens (tokenization. for instance of "words" and punctuation symbols that make up source code) to feed into the parser.

Our project has 4 classes

- 1.Lexer.java
- 2.Token.java
- 3.MyTags.java
- 4.Output.java

Lexer.java:

This program hold the gui for the project and initializes other programs which are defined above :

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| Exercitable | Comparison | Co
```

Token.java:

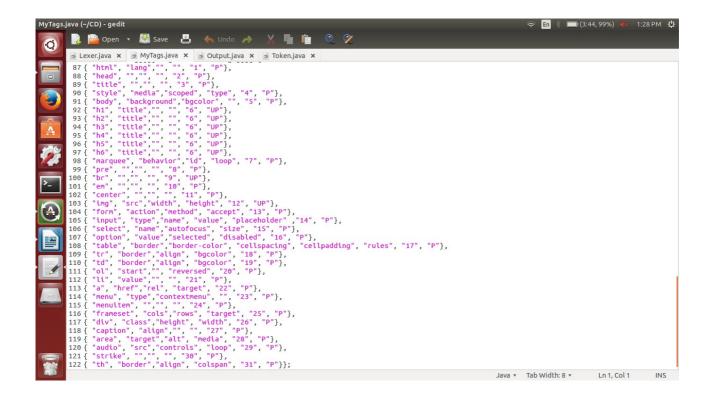
This class has constructors to initialize and get tokens

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Token,ava (-/CD)-gedit

| Case | Save | Case | Case
```

MyTags.java:

This class has a two-dimensional String array to store the attributes of for the tags we have defined and the necessary functions.

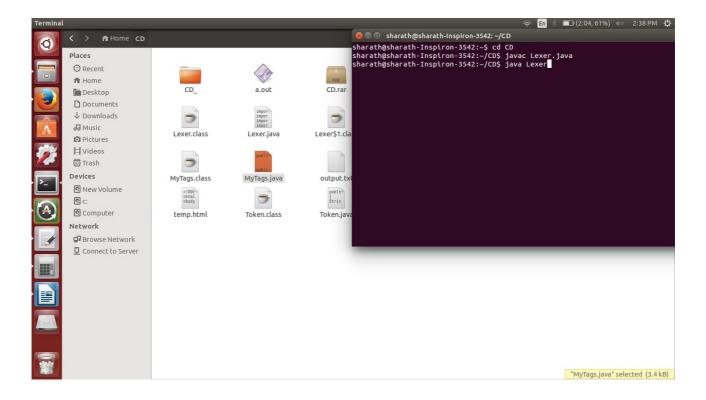


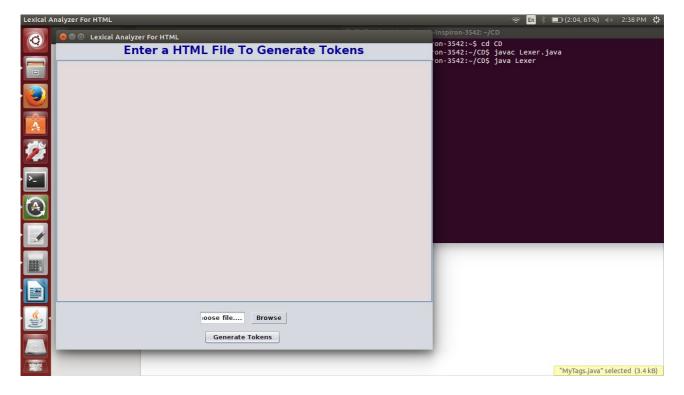
Output.java:

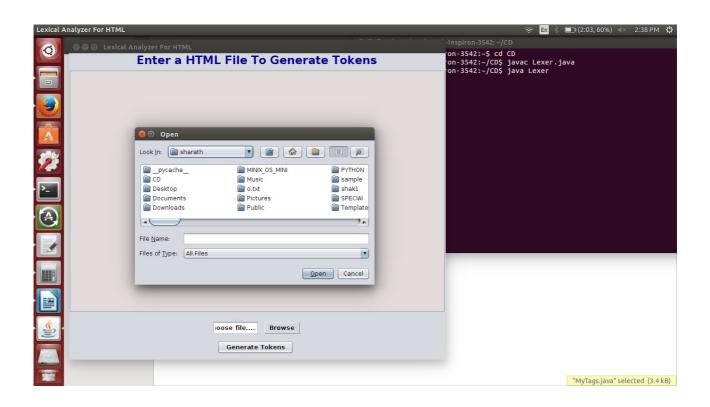
This class defines the format in which output should look after the generation of tokens takes place

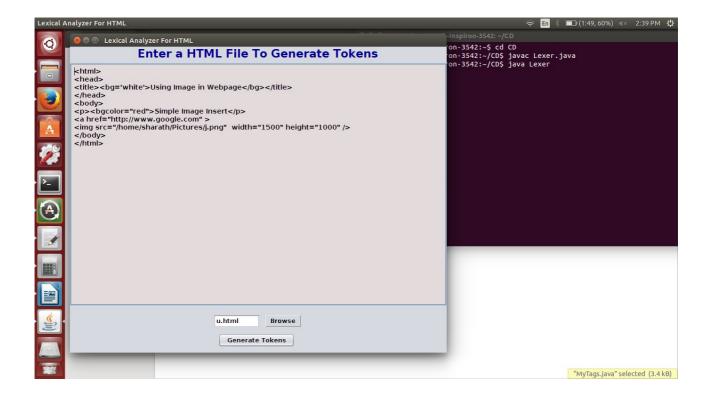
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Output.java (~/CD) - gedit
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         📜 📔 Open 🔻 💆 Save 🖺 | 🦡 Undo 🧀 🐰 🔓 🖺 🔘 🍳
          pelse {tmp += "------Empty fit
while((s = in.readline()) != null) {
    ArrayList<Token> a = getToken(s);
    line_counter+=1;
                                                          -----Empty file-----\n" ;error="None";}
                                            generateTokens(a,line_counter);
                       }
                                             bw.write(tmp);
bw.write("\nError Messages:-\n");
bw.write(error);
bw.write("\n^ "+errorCounter+" Errors");
bw.close();
                                   FileReader reader = new FileReader(file);
BufferedReader br = new BufferedReader(reader);
jTextArea1.read( br, null );
                                         br.close();
                                        jTextArea1.requestFocus();
                      } catch (FileNotFoundException ex) {
   Logger.getLogger(Lexer.class.getName()).log(Level.SEVERE, null, ex);
} catch (IOException ex) {
   Logger.getLogger(Lexer.class.getName()).log(Level.SEVERE, null, ex);
}
                 catch(Exception e) {
    e.printStackTrace();
    //Sustem.out.pri
                                  //System.out.print("-----File Not Found-----");
          91
                                                                                                                                               Java ▼ Tab Width: 8 ▼ Ln 19, Col 4 INS
```

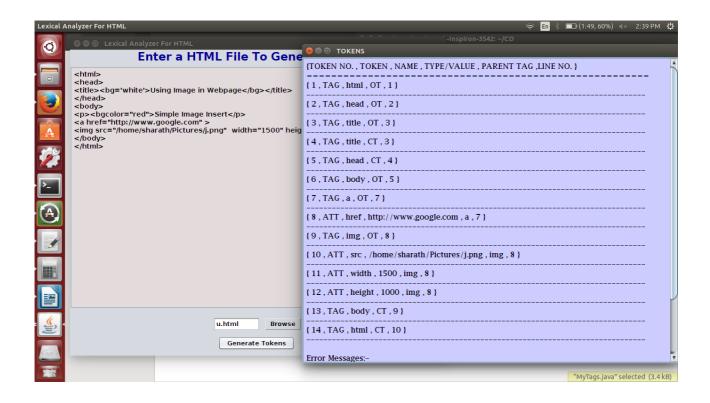
THE OUTPUT 1.Compile the lexer.java program 2.Run the same

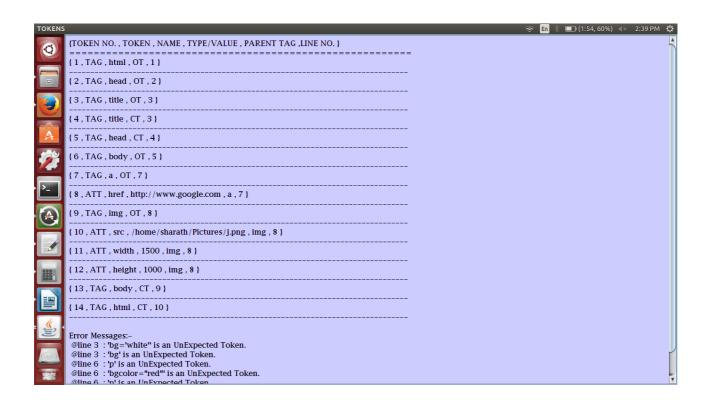












ERROR RECOVERY: BY

Panic Mode Recovery

Panic mode recovery is an error recovery method that can be used in any kind of parsing, because error recovery depends somewhat on the type of parsing technique used. In panic mode recovery, a parser discards input symbols until a statement delimiter, such as a semicolon or an end, is encountered . The parser then deletes stack entries until it finds an entry that will allow it to continue parsing, given the synchronizing token on the input. This method is simple to implement, and it never gets into an infinite loop.