Compiler Construction

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Practical-7

Objective

- To implement grammar rules for control statements, and Loop control.

Introduction

- In this practical i have created two files
- One file is lex file and other is parser file

Output file:

```
vedant@vedant-Inspiron-7572:~/Desktop/Compiler_construction/prac7$ bison -d example.y
example.y: warning: 1 shift/reduce conflict [-Wconflicts-sr]
vedant@vedant-Inspiron-7572:~/Desktop/Compiler_construction/prac7$ ls
example.l  example.tab.c  example.tab.h  example.y
vedant@vedant-Inspiron-7572:~/Desktop/Compiler_construction/prac7$ sudo gedit example.l

** (gedit:4141): WARNING **: 23:25:36.384: Set document metadata failed: Setting attribute metadata::gedit-spell-languag
** (gedit:4141): WARNING **: 23:25:36.385: Set document metadata failed: Setting attribute metadata::gedit-encoding not s
** (gedit:4141): WARNING **: 23:25:38.057: Set document metadata failed: Setting attribute metadata::gedit-position not s
vedant@vedant-Inspiron-7572:~/Desktop/Compiler_construction/prac7$ lex example.lvedant@vedant-Inspiron-7572:~/Desktop/Co
example.l  example.tab.c  example.tab.h  example.y  lex.yy.c
vedant@vedant-Inspiron-7572:~/Desktop/Compiler_construction/prac7$ gcc lex.yy.c example.tab.c
vedant@vedant-Inspiron-7572:~/Desktop/Compiler_construction/prac7$ ls
a.out  example.l  example.tab.c  example.tab.h  example.y  lex.yy.c
vedant@vedant-Inspiron-7572:~/Desktop/Compiler_construction/prac7$ ./a.out
if ( 5<3){

}
syntax error
vedant@vedant-Inspiron-7572:~/Desktop/Compiler_construction/prac7$ ./a.out
if ( 3 < 4 )

3 + 3 ;

}
syntax error
vedant@vedant-Inspiron-7572:~/Desktop/Compiler_construction/prac7$ ./a.out
if (3 < 5) {

}
syntax error
```

Conclusion

In this practical i have learnt application of lexical analyzer and syntax analyzer to implement for loop, while loop and if else statement.