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**Subject** : Advanced programming Languages

**Project** : 1

**File Name :** UsersManual.docx

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**Setup and Compilation**

1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.

2. The submission includes:

· main.c

· error.c

· emitter.c

· symbol.c

· lexer.c

· parser.c

· makefile

· execute.sh

· test1

· test2

· test3

· test4

· test5

· test6

· test7

· test8

· UsersManual.docx (this file)

· FunctionalDecomposition.docx

· Grammar.docx

 3. Environment: This program has been tested in the multi-platform lab and will run there.

 4. Compiling.

· This program includes a Makefile.

· At the command line in Linux, type *make*.

· Results a executable file named final .

 5. Running the program.

· This program includes a executable.sh file.

· Issue the command *sh executable.sh .*

· No command line arguments are required or checked.

· But , user wants to execute the test file from command prompt , type ./final <testfilename>.

· User input: no user interaction with the program is required.

**6.**  Output

· All output goes to the console.

· Output will be similar to this:

  a. Legal – If the given input file is parsed with out any errors

b. Error messages- If the given input file has errors

1. If any parsing error occurred – Syntax error

2. ( - Missing open paranthesis

3. ) – Missing close parenthesis

4. } – Missing close parenthesis

5. ; - Missing delimiter

6. abc\_ - Identifier ending with underscore

7. a - b - Expression syntax error

8. void main() - Expecting void

-Expecting main

9. /\*\*/ -Improper comment termination

10. abc\_\_ -Identifier has consecutive underscore

11. file related -file did not open

12. command line error - wrong command : No filename