

S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NAGPUR.

Practical No. 0(Pre Lab)

AIM: (a) Write and execute a C Program to demonstrate the use of vi editor and GNU C Compiler.

(b)Write a simple program to demonstrate the use LEX tool on Linux.

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Compiler Design (PC	CCCS601P	")
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AIM: (a) Write and execute a C Program to demonstrate the use of vi editor and GNU C Compiler.

(b)Write a simple program to demonstrate the use LEX tool on Linux.

OBJECTIVE/EXPECTED LEARNING OUTCOME:

- To get acquainted with vi editor and C compiler on Linux.
- To understand the working and commands of LEX tool

THEORY:

1) Introduction of vi editor and commands

2) Commands for compiling and running c compiler

3) Introduction of LEX tool

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4) LEX file format

5) Commands to run a LEX program

CODE:

```
#include<stdio.h>
int main()

printf("Hello World");
    return 0;
```

OUTPUT:

```
csc15@linux-p2-1272il:~/CS22130$ vi sample.c
csc15@linux-p2-1272il:~/CS22130$ cc sample.c
csc15@linux-p2-1272il:~/CS22130$ ./a.out
Hello Worldcsc15@linux-p2-1272il:~/CS22130$
```

```
Hello Worldcsc15@linux-p2-1272il:~/CS22130$ lex prelab.lex csc15@linux-p2-1272il:~/CS22130$ cc lex.yy.c csc15@linux-p2-1272il:~/CS22130$ ./a.out a
You have entered a alphabet
```

CONCLUSION:

DISCUSSION AND VIVA VOCE:

- Q 1: How many modes are present in vi editor?
- Q 2: Give vi commands and examples.
- Q 3: which phase of compiler is associated with LEX tool? Why?
- Q 4: What is the use of regular expression in LEX?

REFERENCE:

- https://man7.org/linux/man-pages/man1/lex.1p.html
- Book: lex & yacc by John Levine, Doug Brown, Tony Mason—2nd ed.