Shri Ramdeobaba College of Engineering and Management, Nagpur Department of Computer Science and Engineering Session: 2020-21

Language Processors Lab

VII Semester (Shift-I)

INSTALLATION GUIDE

Instructions:

- The initial lab experiments will be using FLEX and BISION.
- All the students should complete the installation on their laptop / desktop.
- Students can use WINDOWS or LINUX

FOR INSTALLTION ON WINDOWS OS

Step 1: Download setup file for flex and bison from given link

- 1. Install Flex: http://gnuwin32.sourceforge.net/packages/flex.htm
- 2. Install Bison:http://gnuwin32.sourceforge.net/packages/bison.htm

NOTE: Install flex and bison in C:\GnuWin32 (do not use the default path)

Step 2: Download setup file for C

https://sourceforge.net/projects/orwelldevcpp/

Click on download

NOTE: Install in C:\Dev-Cpp

Access from control panel → system → advanced system settings → Environment

Step 3: Add to PATH variable

Add the following to the path variable:

 $C:\GnuWin32\bin$

C:\Dev-Cpp\MinGW64\bin

 $C:\Dev-Cpp\MinGW64\libexec\gcc\x86_64-w64-mingw32\4.9.2$

OR

According to your machine installation the bin folder, version folder.

Step 4: Check installation

- Open NOTEPAD
- Copy paste the given code
- Click save as → count.l (IMP: select all files, it is not a text file)

count dot small L

Code to write in notepad:

Step 5: Run and check

- 1. Open command prompt: type cmd
- 2. Change directory to folder where you have saved the lex file (having .l extension)
- 3. Run flex: flex count.1
- 4. Then run c: gcc lex.yy.c

Example:

```
C:\Users\india>cd C:\Users\india\Desktop
C:\Users\india\Desktop>flex count.1
C:\Users\india\Desktop>gcc lex.yy.c
```

5. To run exe: type a.exe and write any word and enter

Example:

FOR INSTALLTION ON LINUX OS

(NOTE: INTERNET CONNECTION IS NECESSARY FOR command based installation on LINUX)

Step 1: Open Terminal

Step 2: Update

Type the command: sudo apt-get update

hdpuser@local-master:~\$ sudo apt-get update

Step 3: install flex and bison

Type commands one by one:

sudo apt-get install flex sudo apt-get install bison

Step 4: Check installation

- Open a text editor. Command: gedit try1.1
- Text editor opens write the below code in it and save.

%%

 $[\t]+\$;$

- Complie with LEX. Command: flex try1.1
- Run c. Command: gcc lex.yy.c -lfl
- Run final

./a.out

and type hello world.

If hello world comes again then installation is successful. Press control+z on to exit.

Screen shot:

```
hdpuser@local-master:~$ gedit try1.l
hdpuser@local-master:~$ flex try1.l
hdpuser@local-master:~$ gcc lex.yy.c -lfl
hdpuser@local-master:~$ ./a.out
hello world
hello world
^Z
[1]+ Stopped ./a.out
hdpuser@local-master:~$
```