**Practical- 6**

* + 1. **Write a program to identify the word and change the case of each character of word (i.e if character in word is in lowercase then convert it to uppercase and if it is uppercase then convert to lowercase)**

%{

#include<stdio.h>

%}

%%

[a-z] {printf("%c",yytext[0]-32);}

[A-Z] {printf("%c",yytext[0]+32);}

%%

int yywrap()

{

return 1;

}

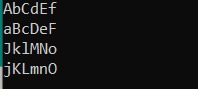
int main()

{

yylex();

}

**OUTPUT**



* + 1. **Write a Lex program to count number of comments (single line or multiple lines) in given C source file.**

%{

#include<stdio.h>

int sl=0,ml=0;

%}

%%

"//" { sl++; }

"/\*"([^\*]|[\*][^/])\*"\*/" { ml++; }

.|\n { }

%%

int yywrap()

{

return 1;

}

int main()

{

FILE \*fp;

fp=fopen("pr2.c","r");

if(fp==NULL)

{

printf("Error");

return 0;

}

yyin=fp;

yylex();

printf("No of Single lines comments are %d\n",sl);

printf("No of multiple lines comments are %d\n",ml);

}

**C File**

#include<stdio.h>// header file

#include<conio.h>

#define pi 3.14

void main()

{

printf("Hello");

}

/\*abc

{

}\*/

**OUTPUT**

2.PNG

* + 1. **Write a LEX program to display your name when 0 is entered and nothing should be displayed on the screen.**

%{

#include<stdio.h>

%}

%%

0 { printf("Dharmay"); }

.|\n { }

%%

int yywrap()

{

return 1;

}

int main()

{

yylex();

}

**OUTPUT**

C:\Users\admin\Downloads\toc1.jpeg

* + 1. **Write a LEX program to count word “India” from file.**

**Expected Input from file: India is a great country and India have large population.**

**Expected output: word count = 2**

%{

#include<stdio.h>

int sl=0;

%}

%%

India { sl++; }

.|\n ;

%%

int yywrap()

{

return 1;

}

int main()

{

FILE \*fp;

fp=fopen("india.txt","r");

if(fp==NULL)

{

printf("Error");

return 0;

}

yyin=fp;

yylex();

printf("No of word in file is :- %d\n",sl);

}

**OUTPUT**

4.PNG

* + 1. **Display content of text file on output screen with a word “Hello” is replaced by “Hi”.**

%{

#include<stdio.h>

%}

%%

"Hello" {printf("Hi");}

%%

int yywrap()

{

return 1;

}

int main()

{

FILE \*f1;

f1=fopen("hi.txt","r");

if(f1==NULL)

{

printf("Error");

return 0;

}

yyin=f1;

yylex();

}

**File:**

Hello

**OUTPUT**

5.PNG