

Aim: To Implementation a simple intermediate code generation in C.

Program:

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
struct three
```

```
{  
    char var[10], temp[1];
```

```
} s[30];
```

```
FILE f1, f2
```

```
f1 = fopen("sum" + t, "r");
```

```
f2 = fopen("out", "w");
```

```
int b[4], a[7]
```

```
fprint(f2, "1e")
```

```
strcpy(b, "t")
```

```
++t;
```

```
fclose(f1);
```

```
fclose(f2);
```

output:

$out = in1 + in2 + in3 - in4$

$out of in1 = in1 + in2 - t2 = t1 + in3$

$t3 = t2 - in4$ out = t3

Result: simple intermediate code is executed successfully.

15. Back End of the compiler

Aim: To Implement a program to Implement the back end to the compiler.

Program:-

```
#include <stdio.h>
#include <conio.h>
struct three
{
    char d1[10], d2[10];
    int i=0; j=1; len=0;
} f1, f2;

f1.f2 = f1.f2;

f1 = fopen("sum.txt", "w");
f2 = fopen(f1, "w", "s", "strlen(data) = EDE");
if (f1 & f2)
{
    printf("d1, d2");
    printf("d1, d2");
    printf("d1, d2");
}
fclose(f1);
fclose(f2);
output:
out = initialization - int.
```

Result:

C program to Implement the back end to compiler is executed.

16. C++ PROGRAM for CAPITAL WORDS

30

```

#include <stdio.h>
% {
% %
PA-2} + {1+1/n} {Print ("4.5"/1.125)}
;
% %
int yywrap () {}
int main ()
{
printf ("Enter the input string: ");
yylex ();
}

```

output: Input.
INDR.

Result: lex program for capital words is
Executed.

EXP: 17. lex - count

Aim: lex program for count comment
lines.

Program:

```

% {
#include <stdio.h>
int nc = 0

```

```

% {

```


11.7 * {a-2A-20-9/n/t} #1 * / " {ncp++}

11.7: {a-2A-20-9/t} #/n " {ncp++};

%o

int yywrap () {

int main (int argc, char *argv[])

{

yyin = fopen (argv[1], "r");

yyout = fopen ("out put.c", "w");

yylex ();

printf ("the no. of comment lines = %d\n", nc);

}

output :- abc.

Result :- lex program for words if executed successfully.

EXP :- 18. Email

Aim :- lex program for Email valid or not.

Program :-

% {

% {

% {

{a-z0-9.a}+@[a-z]t.com, in { printf ("%s\n", invalid);

20. Aim :- let program for positive & negative number.

Program :-

#include <stdio.h>

%.f

%.%

{(-) (0-9) + {negative - not};

printf("negative number = %.s/n", yybuf)

{(0-9) + {positive - not};

printf("positive number = %.s/n", yybuf);

%.%

int yywrap();

int main()

{

yy/n ();

printf("no. of positive number = %.d",

no. of negative number = %.d / n"

positive - no, negative - no);

return 0;

}

o/p. 201418 → P. 2 m:-1.

Result :- let program for pos & neg is executed successfully.

Ans