

# Ajit Medhekar

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AAA

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Thursday, October 6, 2011

## Three Address Code Generation Using Lex & Yacc

Prblem Statement : Write a program to generate three address code for simple instruction.

```

/***** codegen.l *****/

%{
    #include<stdio.h>
    #include"y.tab.h"
    char ch='a';

}%
%%
[0-9]+ {yyval.dval=yytext[0]; return NUM;}
\n {return 0;}
. {return yytext[0];}
%%
void yyerror(char* str)
{
    printf("\n%s",str);
}
char gencode(char ch1,char first,char op,char second)
{
    printf("\n%c = %c %c %c\n",ch,first,op,second);
    return ch++;
}
main()
{
    yyparse();
    return 0;
}

/***** codegen.y *****/

%{
    #include<stdio.h>
    int aaa;

}%

%union {
    char dval;
}

%token <dval> NUM
%type <dval> E
%left '+' '-'
%left '*' '/'

%%
statement : E {printf("\nt = %c\n This Three Address Code Generate by AAA...\n",$1);}
  
```



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"The last six months of 'sideload' press — which Apple didn't try to stop — had convinced us that Apple would be receptive to an approach like this, but they seem to disagree," Herf commented. "I asked [Chipman] about open source used in a similar ...

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```

;
E : E '+' E {$$=gencode($$, $1, '+', $3);}
    | E '-' E {$$=gencode($$, $1, '-', $3);}
    | E '*' E {$$=gencode($$, $1, '*', $3);}
    | E '/' E {$$=gencode($$, $1, '/', $3);}
    | '(' E ')' {$$=$2;}
    | NUM {$$=$1;}
;
%%

```

/\*\*\*\*\* OUTPUT \*\*\*\*\*/

[a38@localhost ~]\$ ./a.out  
1+2\*5-6/4

a = 2 \* 5

b = 1 + a

c = 6 / 4

d = b - c

t = d

This Three Address Code Generate by AAA...

[a38@localhost ~]\$ ./a.out  
1+2\*(3+4)/5

a = 3 + 4

b = 2 \* a

c = b / 5

d = 1 + c

t = d

This Three Address Code Generate by AAA...

Posted by AAA at 10:30 AM 

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## 5 comments:



**Mayur** October 24, 2012 at 2:02 AM

give explanation...

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**AAA** October 24, 2012 at 2:33 AM

what explanation u want ???  
there is no need of explanation ...

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**Deepti Khanduja** February 24, 2013 at 10:00 AM

*This comment has been removed by the author.*

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**Rajeev** February 28, 2013 at 7:19 AM

pls provide the commands and steps to exicute this code.

[Reply](#)**Amit Kumar** October 13, 2015 at 10:04 PM

To execute this code:

```
>> yacc -d codegen.y
>> lex codegen.l
>> gcc lex.yy.c y.tab.c -ll
>> ./a.out
```

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