**Vald.l:-->**

%{

#include"y.tab.h"

#include<math.h>

extern yylval;

%}

%%

[0-9]+ {yylval=atoi(yytext);return NUM;}

[+] {return '+';}

[-] {return '-';}

[\*] {return '\*';}

[/] {return '/';}

[\t]+;

[\n] {return 0;}

{return yytext[0];

}

%%

**vald.y:-->**

%{

#include<stdio.h>

%}

%token NUM

%left'-''+'

%right'\*''/'

%%

start:exp {printf("%d\n",$$);}

exp:exp'+'exp {$$=$1+$3;}

|exp'-'exp {$$=$1-$3;}

|exp'\*'exp {$$=$1\*$3;}

|exp'/'exp {if($3==0)yyerror("error");

else

{

$$=$1/$3;

}

}

|'('exp')'{$$=$2;}

|NUM {$$=$1;}

;%%

main()

{

printf("enter the expression \n");

if(yyparse()==0)

printf("correct answer \n");

}

yywrap(){}

yyerror()

{

printf("invalid input \n");

}

**OUTPUT:-->**

bash: /opt/intel/vtune\_amplifier\_2018\_update1/amplxe-vars.sh: No such file or directory

student@student-OptiPlex-3020:~$ lex vald.l

student@student-OptiPlex-3020:~$ yacc -d vald.y

student@student-OptiPlex-3020:~$ cc lex.yy.c y.tab.c

student@student-OptiPlex-3020:~$ ./a.out

enter the expression

10+20

30

correct answer

student@student-OptiPlex-3020:~$ ./a.out

enter the expression

5.2\*2

.5

invalid input

student@student-OptiPlex-3020:~$