YACC Program

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```
yaceg.y
%{
#include<stdio.h>
#include"lex.yy.c"
int yyerror(char *);
int yywrap();
%}
%token NUMBER
%%
result:e'\n'{printf("Output : \%d\n\n",$$);}
      exit(0);};
      :e'+'t\{\$\$=\$1+\$3;\}
e
       |e'-'t\{\$\$=\$1-\$3;\}
       |t \{ \$\$ = \$1; \};
      :t '*' f { $$ = $1 * $3;}
\mathbf{t}
       |t''| f \{ \$\$ = \$1 / \$3; \}
       |f \{ \$\$ = \$1; \};
      : '('e')'{$$ = $2;}
\mathbf{f}
       |NUMBER\{\$\$ = \$1;\};
%%
int main(void)
{
      return yyparse();
}
int yyerror(char *msg)
```

```
{
    return fprintf(stderr,"YACC: %s\n",msg);
}
int yywrap()
{
    return -1;
}
```

yaaclex.l

Output

42813@user:/mnt/42813/compiler/yacc\$ flex yaaclex.l 42813@user:/mnt/42813/compiler/yacc\$ bison yaaceg.y -d 42813@user:/mnt/42813/compiler/yacc\$ gcc -o out yaaceg.tab.c 42813@user:/mnt/42813/compiler/yacc\$./out

2+3

Output: 5

42813@user:/mnt/42813/compiler/yacc\$./out

5*8

Output: 40

42813@user:/mnt/42813/compiler/yacc\$