## **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',$$);
      exit(0);};
      :e'+'t\{\$\$=\$1+\$3;\}
e
      | e '-' t { $$ = $1 - $3;}
      |t \{ \$\$ = \$1; \};
      :t '*' f { $$ = $1 * $3;}
\mathsf{t}
      |t''| f { $$ = $1 / $3;}
      |f \{ \$\$ = \$1; \};
\mathbf{f}
      : '('e')' = $2;
      |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**

57613@user:/mnt/57613/compiler/yacc\$ flex yaaclex.l 57613@user:/mnt/57613/compiler/yacc\$ bison yaaceg.y -d 57613@user:/mnt/57613/compiler/yacc\$ gcc -o out yaaceg.tab.c

57613@user:/mnt/57613/compiler/yacc\$./out 2+3

Output: 5

57613@user:/mnt/57613/compiler/yacc\$./out

5\*8

Output: 40

57613@user:/mnt/57613/compiler/yacc\$