



```
%{  
#include <stdio.h>  
#include <stdlib.h>  
int num1 = -1, num2 = -1;  
char op;  
%}  
%%  
[0-9]+ { if(num1 == -1)  
          num1 = atoi(yytext);  
        else  
          num2 = atoi(yytext);}  
[+\\-*/] { op = yytext[0]; }  
  
[ \\t] ; /* ignore spaces and tabs */  
  
\\n return 0; /* stop scanning on newline */  
  
. { printf("Invalid character: %s\\n", yytext); }  
  
%%
```

```
int yywrap(void) { return 1; }
int main() {
    printf("Enter an expression (e.g., 12+5): ");
    yylex();
    if(num1 != -1 && num2 != -1) {
        switch(op) {
            case '+': printf("Result = %d\n", num1 + num2); break;
            case '-': printf("Result = %d\n", num1 - num2); break;
            case '*': printf("Result = %d\n", num1 * num2); break;
            case '/':
                if(num2 != 0) printf("Result = %d\n", num1 / num2);
                else printf("Error: Division by zero!\n");
                break;
            default: printf("Invalid operator\n");
        }
    } else {
        printf("Invalid expression\n");
    }
    return 0;
}
```



Command Prompt



Microsoft Windows [Version 10.0.26100.6584]  
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```
C:\Users\manoj>set path=C:\Users\manoj\Documents\GnuWin32\bin
```

```
C:\Users\manoj>flex exp.l.txt
```

```
C:\Users\manoj>set path=C:\Users\manoj\Documents\MinGW\bin
```

```
C:\Users\manoj>gcc lex.yy.c
```

```
C:\Users\manoj>a
```

```
Enter an expression (e.g., 12+5): 2+5
```

```
Result = 7
```