



# MINI CALCULATOR

**Compilation Project** 

PRESENTED TO

Mrs Rebai Sirine

**PRESENTED BY** 

**Arous Achraf** 

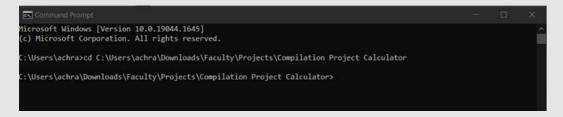
## **BISON FILE**

```
#include<stdio.h>
    #define YYSTYPE int
    int yyparse();
    int yylex();
    yyerror(char *s);
%}
%token NOMBRE
%left PLUS
%left MINUS
%left MULT
%left DIV
%start RES
RES: EXP {printf("Calcul: %d\n",$1);}
    EXP: NOMBRE |Add|Sous|Prod|Div {$$=$1;}
     Add: EXP PLUS EXP {printf("c'est une addition\n");$$ = $1 + $3;}
     Sous: EXP MINUS EXP {printf("c'est une soustraction\n");$$ = $1 - $3;}
     Prod: EXP MULT EXP {printf("c'est une production\n");$$ = $1 * $3;}
    Div: EXP DIV EXP {printf("c'est une division\n");$$ = 1 / 3;
void yyerror(char *s)
printf ("Erreur %s",s);
return 0;
int main(void)
yyparse();
return 0;
```

## **FLEX FILE**

```
%{
         #include<stdio.h>
     %}
     %option noyywrap
     others [ \t\n]+
     number [0-9]+
     plus \+
     minus \-
     prod \*
     div ∖/
11
     %%
12
     {others}
                 {}
                {yylval = atoi(yytext); return(NOMBRE); }
     {number}
14
     {plus}
                 {return(PLUS); }
     {minus}
                 {return(MINUS); }
15
     {prod}
                 {return(MULT); }
     {div}
                 {return(DIV); }
17
     %%
     void main(){
     yylex();
21
```

## **Change Directory**



#### Compile Bison File

C:\Users\achra\Downloads\Faculty\Projects\Compilation Project Calculator>bison -d calcul.y

## Compile Flex File

C:\Users\achra\Downloads\Faculty\Projects\Compilation Project Calculator>flex -ocalcul.c calcul.l

#### **Execution**