



File Edit View

```
#define SIZE 100
#define PI 3.14159
#define MESSAGE "Welcome to Lex Program"

#include <stdio.h>
#include <stdlib.h>
#include <math.h>

void main() {
    int radius = 5;
    int arr[SIZE];
    float area = PI * radius * radius;

    printf("%s\n", MESSAGE);
    printf("Radius: %d\n", radius);
    printf("Area: %.2f\n", area);
}
```



```
%{  
    #include <stdio.h>  
    int nmacro = 0, nheader = 0;  
}%  
  
%%  
  
^#define      { nmacro++; }  
^#include     { nheader++; }  
.|\\n        { /* Ignore everything else */ }  
%%  
  
int yywrap(void) {  
    return 1;  
}  
  
int main() {  
    char filename[100];  
    FILE *f;  
    printf("Enter File Name : ");  
    scanf("%s", filename);  
    f = fopen(filename, "r");  
    if (!f) {  
        printf("Could not open file: %s\\n", filename);  
        return 1;  
    }  
    yyin = f;    // assign file to yyin  
    yylex();     // run lexical analyzer  
    printf("Number of macros defined = %d\\n", nmacro);  
    printf("Number of header files included = %d\\n", nheader);  
    fclose(f);  
    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 macroheader.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 File Name : sample1.c

Number of macros defined = 3

Number of header files included = 3