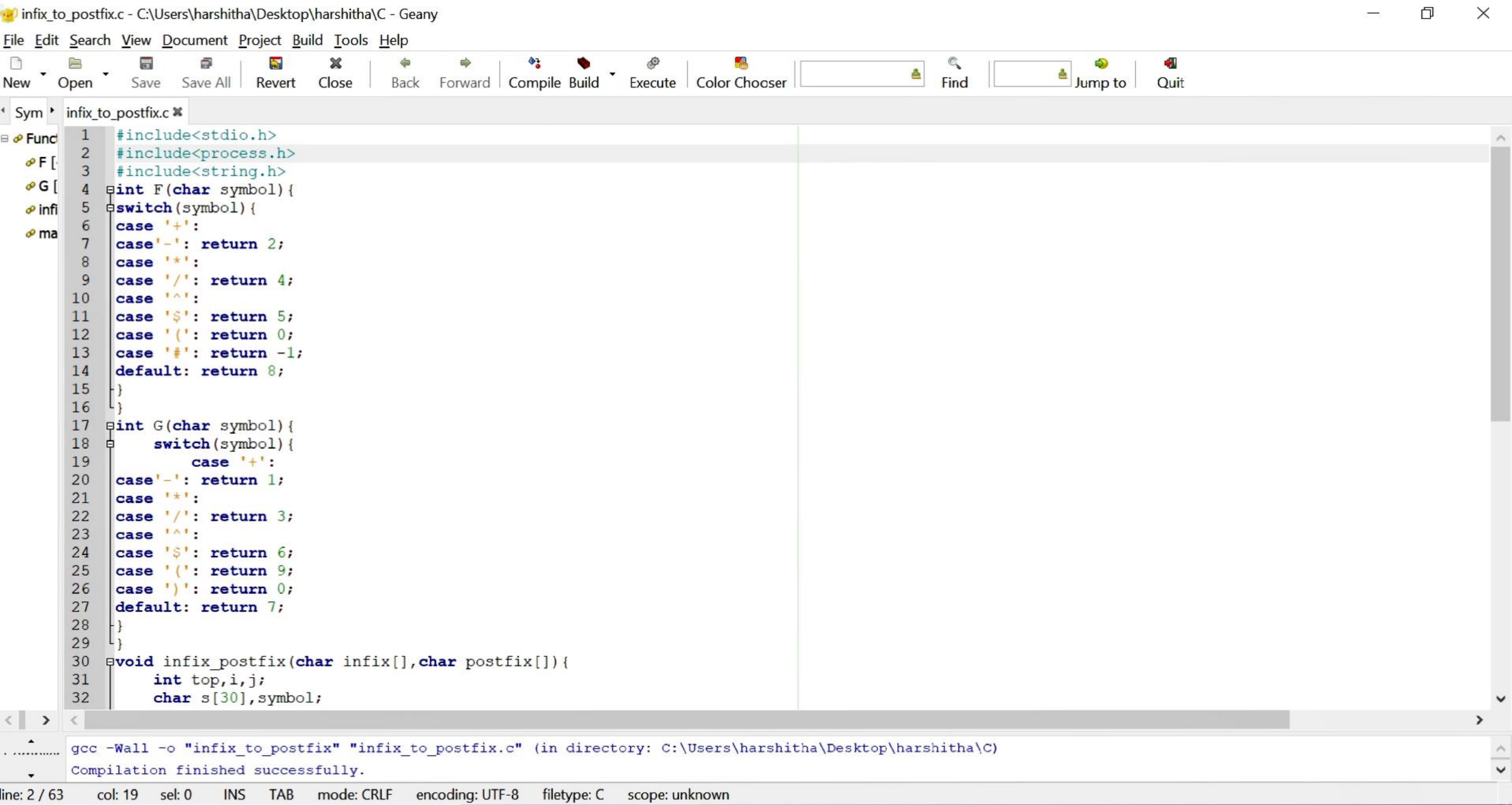
infix_to_postfix.c - C:\Users\harshitha\Desktop\harshitha\C - Geany
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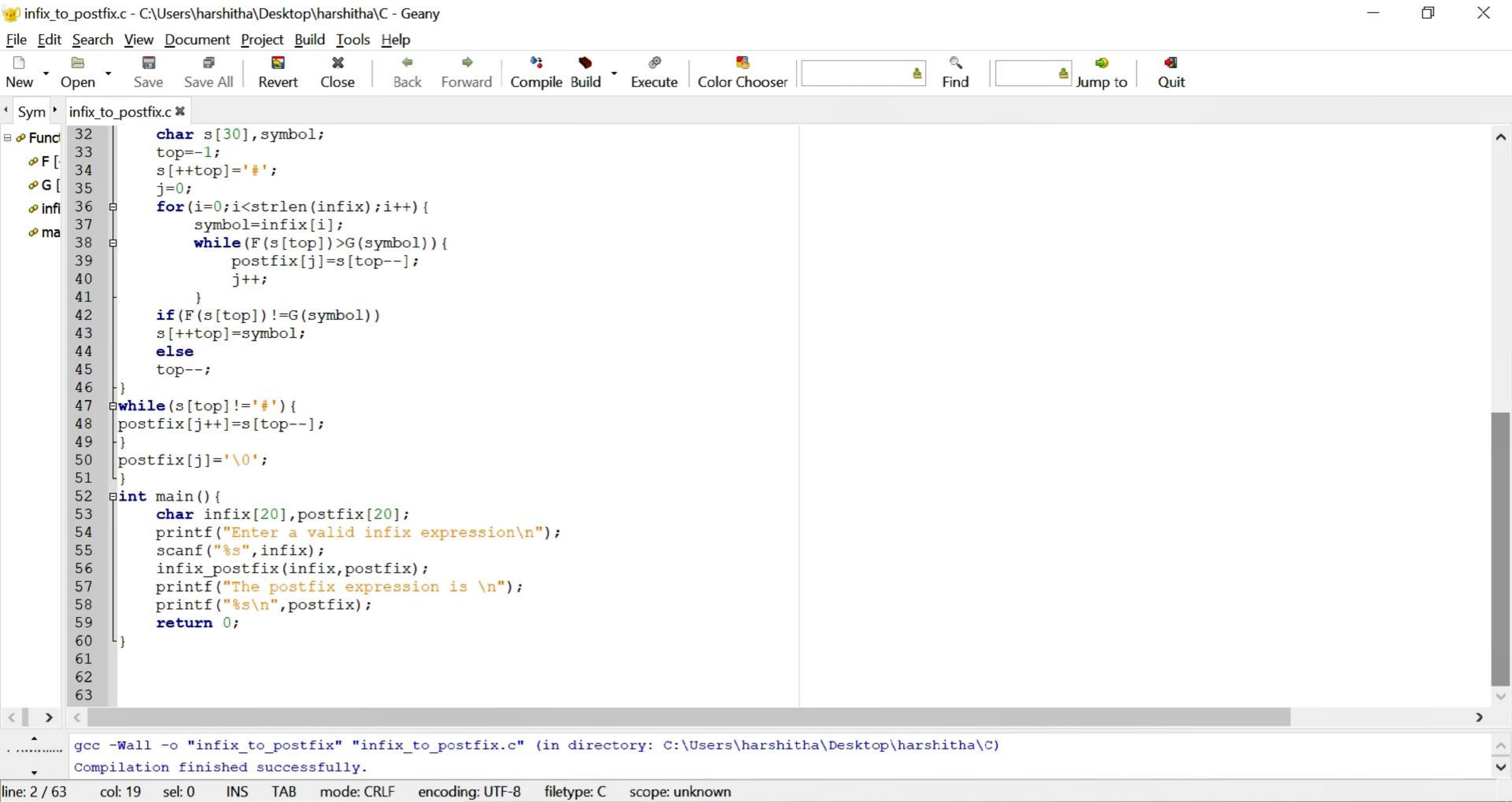
Sym infix_to_postfix.c
Funct F [G [infi ma

```c
#include<stdio.h>
#include<process.h>
#include<string.h>
int F(char symbol){
switch(symbol){
case '+':
case'-': return 2;
case '*':
case '/': return 4;
case '^':
case '$': return 5;
case '(': return 0;
case '#': return -1;
default: return 8;
}
}
int G(char symbol){
    switch(symbol){
        case '+':
case'-': return 1;
case '*':
case '/': return 3;
case '^':
case '$': return 6;
case '(': return 9;
case ')': return 0;
default: return 7;
}
}
void infix_postfix(char infix[],char postfix[]){
    int top,i,j;
    char s[30],symbol;
```

```
gcc -Wall -o "infix_to_postfix" "infix_to_postfix.c" (in directory: C:\Users\harshitha\Desktop\harshitha\C)
Compilation finished successfully.
```

line: 2 / 63   col: 19   sel: 0   INS   TAB   mode: CRLF   encoding: UTF-8   filetype: C   scope: unknown



```
    char s[30],symbol;
    top=-1;
    s[++top]='#';
    j=0;
    for(i=0;i<strlen(infix);i++){
        symbol=infix[i];
        while(F(s[top])>G(symbol)){
            postfix[j]=s[top--];
            j++;
        }
    if(F(s[top])!=G(symbol))
    s[++top]=symbol;
    else
    top--;
}
while(s[top]!='#'){
postfix[j++]=s[top--];
}
postfix[j]='\0';
}
int main(){
    char infix[20],postfix[20];
    printf("Enter a valid infix expression\n");
    scanf("%s",infix);
    infix_postfix(infix,postfix);
    printf("The postfix expression is \n");
    printf("%s\n",postfix);
    return 0;
}
```

```
gcc -Wall -o "infix_to_postfix" "infix_to_postfix.c" (in directory: C:\Users\harshitha\Desktop\harshitha\C)
Compilation finished successfully.
```

infix_to_postfix.c - C:\Users\harshitha\Desktop\harshitha\C - Geany
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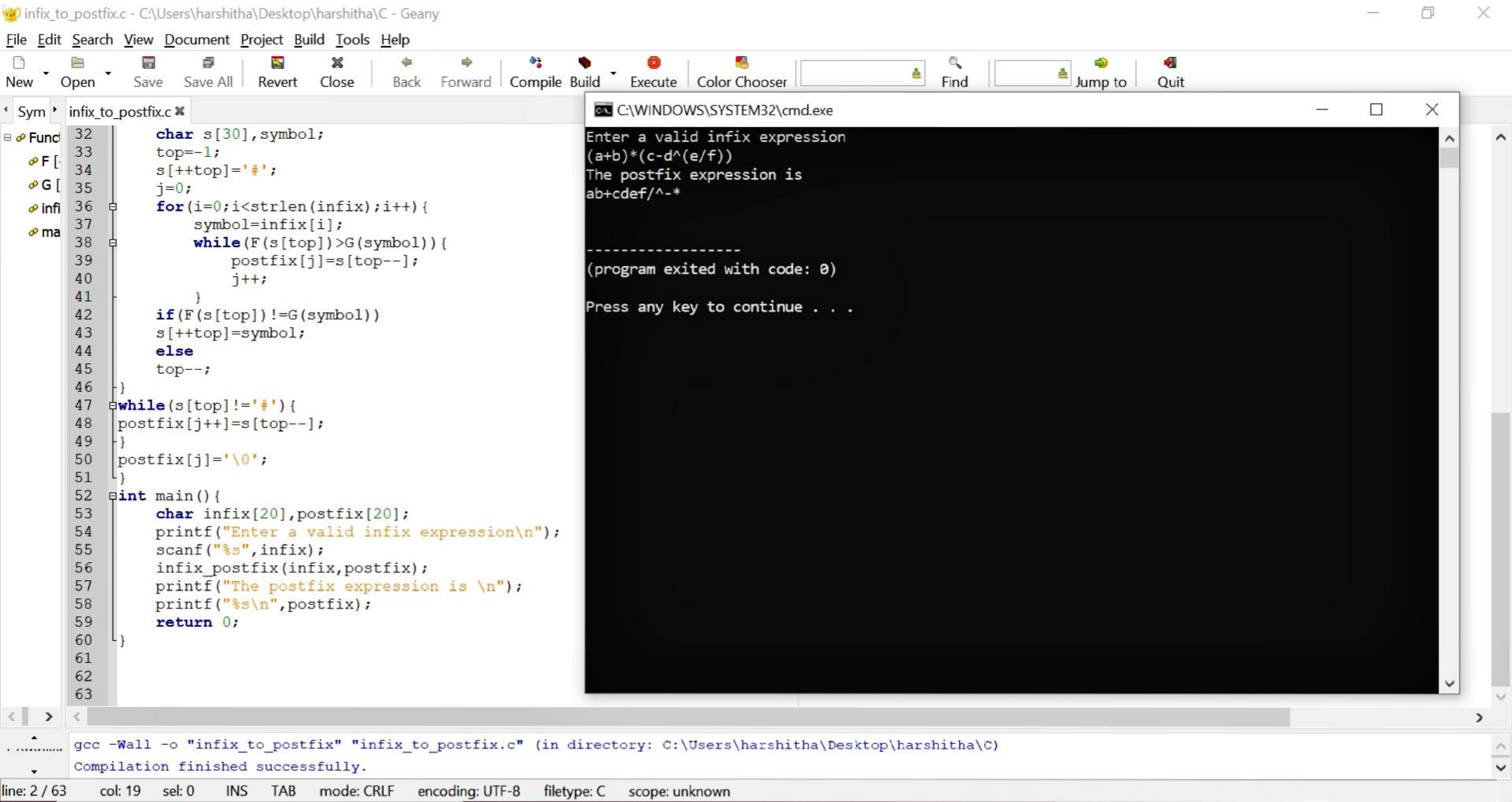
line: 2 / 63 col: 19 sel: 0 INS TAB mode: CRLF encoding: UTF-8 filetype: C scope: unknown


infix_to_postfix.c - C:\Users\harshitha\Desktop\harshitha\C - Geany
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C:\WINDOWS\SYSTEM32\cmd.exe

```c
    char s[30],symbol;
    top=-1;
    s[++top]='#';
    j=0;
    for(i=0;i<strlen(infix);i++){
        symbol=infix[i];
        while(F(s[top])>G(symbol)){
            postfix[j]=s[top--];
            j++;
        }
    if(F(s[top])!=G(symbol))
    s[++top]=symbol;
    else
    top--;
}
while(s[top]!='#'){
postfix[j++]=s[top--];
}
postfix[j]='\0';
}
int main(){
    char infix[20],postfix[20];
    printf("Enter a valid infix expression\n");
    scanf("%s",infix);
    infix_postfix(infix,postfix);
    printf("The postfix expression is \n");
    printf("%s\n",postfix);
    return 0;
}
```

```
Enter a valid infix expression
(a+b)*(c-d^(e/f))
The postfix expression is
ab+cdef/^-*


------------------
(program exited with code: 0)

Press any key to continue . . .
```

```
gcc -Wall -o "infix_to_postfix" "infix_to_postfix.c" (in directory: C:\Users\harshitha\Desktop\harshitha\C)
Compilation finished successfully.
```

line: 2 / 63 col: 19 sel: 0 INS TAB mode: CRLF encoding: UTF-8 filetype: C scope: unknown