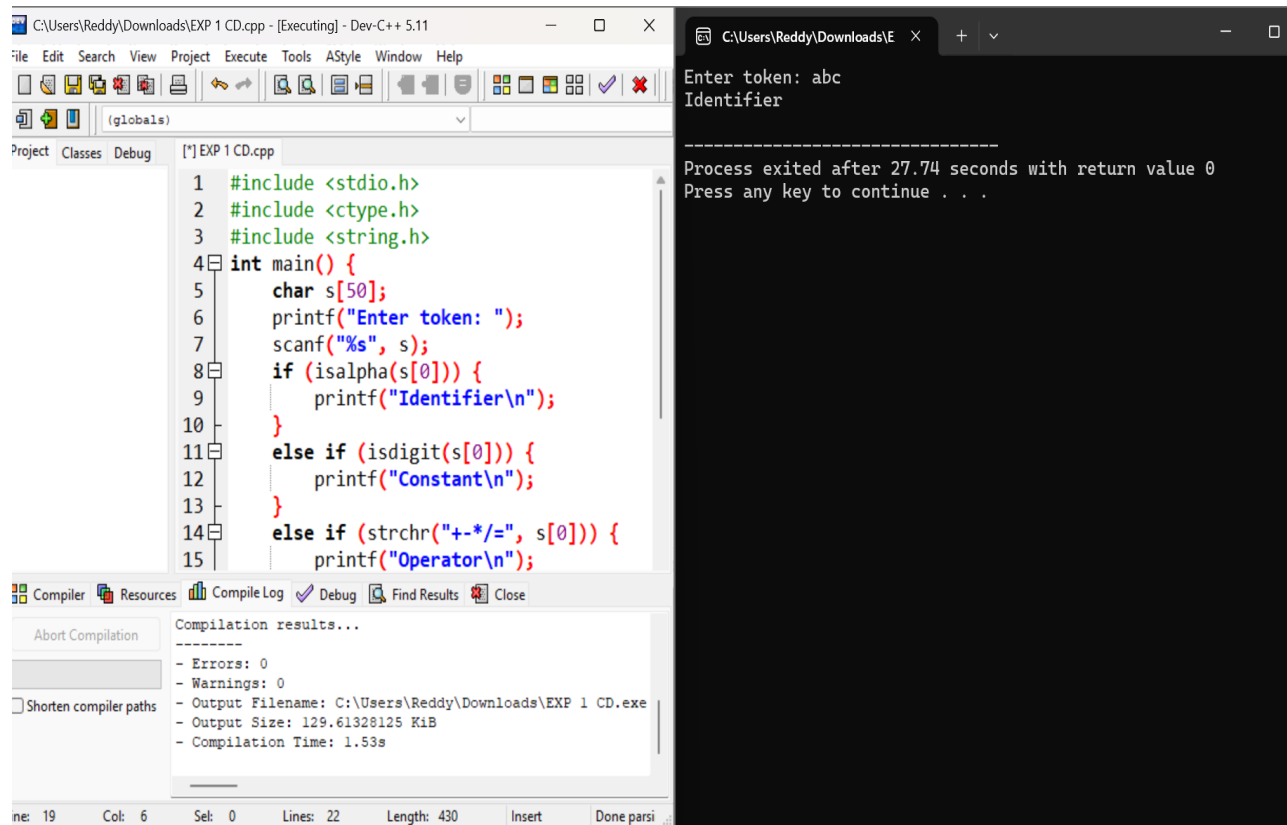


6. C Program to Eliminate Left Recursion

```
#include <stdio.h>
#include <ctype.h>
#include <string.h>
int main() {
    char s[50];
    printf("Enter token: ");
    scanf("%s", s);
    if (isalpha(s[0])) {
        printf("Identifier\n");
    }
    else if (isdigit(s[0])) {
        printf("Constant\n");
    }
    else if (strchr("+-*/= ", s[0])) {
        printf("Operator\n");
    }
    else {
        printf("Unknown Token\n");
    }
    return 0;}
```

Output:



The screenshot displays the Dev-C++ IDE interface. The main editor window shows a C++ program named 'EXP 1 CD.cpp'. The code includes standard headers and a main function that prompts the user to enter a token. It then checks if the token is an identifier, constant, or operator. The output window on the right shows the program's execution, where 'abc' was entered, and it was correctly identified as an 'Identifier'. The compilation window at the bottom shows successful compilation with no errors or warnings.

```
1 #include <stdio.h>
2 #include <ctype.h>
3 #include <string.h>
4 int main() {
5     char s[50];
6     printf("Enter token: ");
7     scanf("%s", s);
8     if (isalpha(s[0])) {
9         printf("Identifier\n");
10    }
11    else if (isdigit(s[0])) {
12        printf("Constant\n");
13    }
14    else if (strchr("+-*/= ", s[0])) {
15        printf("Operator\n");
16    }
17 }
```

Enter token: abc
Identifier

Process exited after 27.74 seconds with return value 0
Press any key to continue . . .

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Reddy\Downloads\EXP 1 CD.exe
- Output Size: 129.61328125 KiB
- Compilation Time: 1.53s