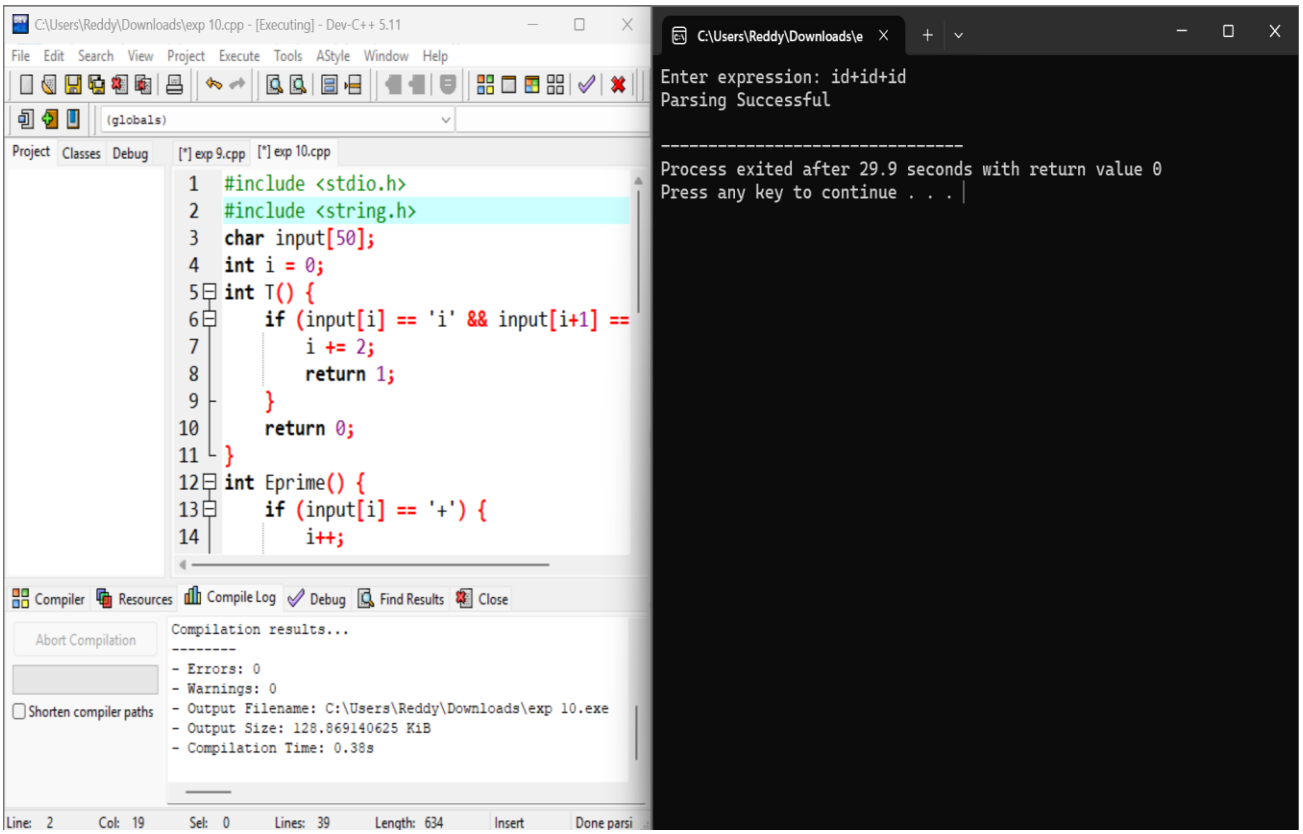
10. Recursive Descent Parser

```
#include <stdio.h>
#include <string.h>
char input[50];
int i = 0;
int T() {
    if (input[i] == 'i' && input[i+1] == 'd') {
        i += 2;
        return 1;
    }
    return 0;
}
int Eprime() {
    if (input[i] == '+') {
        i++;
        if (T())
            return Eprime();
        return 0;
    }
    return 1;
}
int E() {
    if (T())
        return Eprime();
    return 0;
}
int main() {
    printf("Enter expression: ");
    scanf("%s", input);
```

```
    if (E() && input[i] == '\0')
        printf("Parsing Successful\n");
    else
        printf("Parsing Failed\n");
    return 0;
}
```

Output: