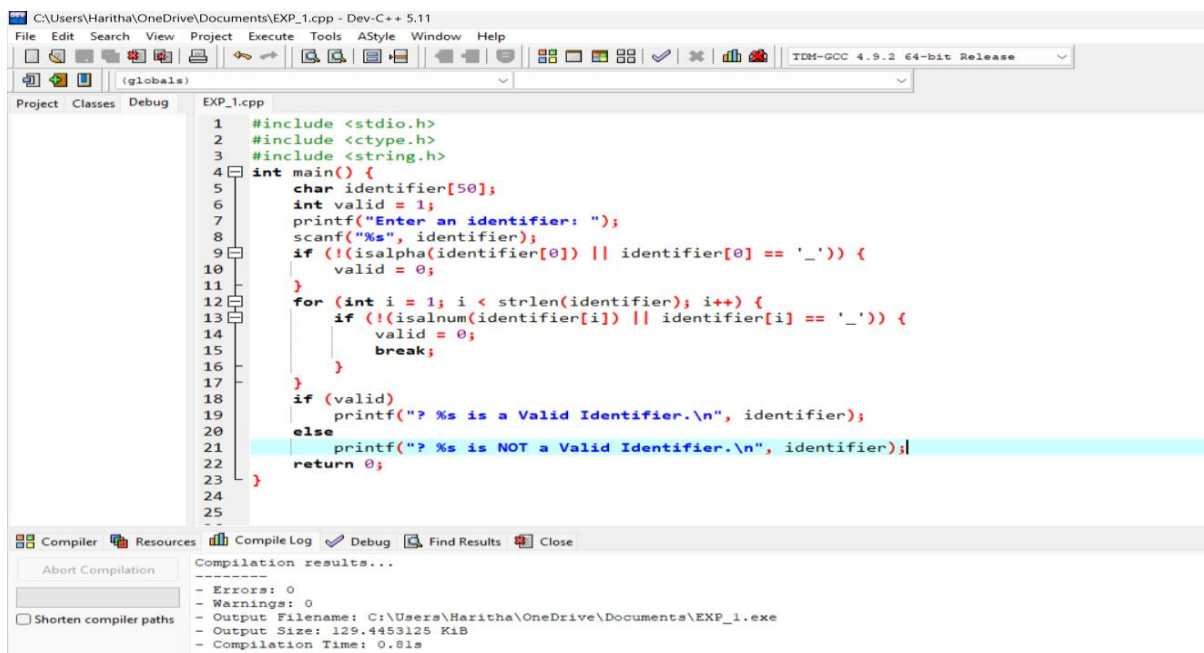# EXPERIMENT-6

## AIM:

Develop a lexical Analyzer to test whether a given identifier is valid or not using C.

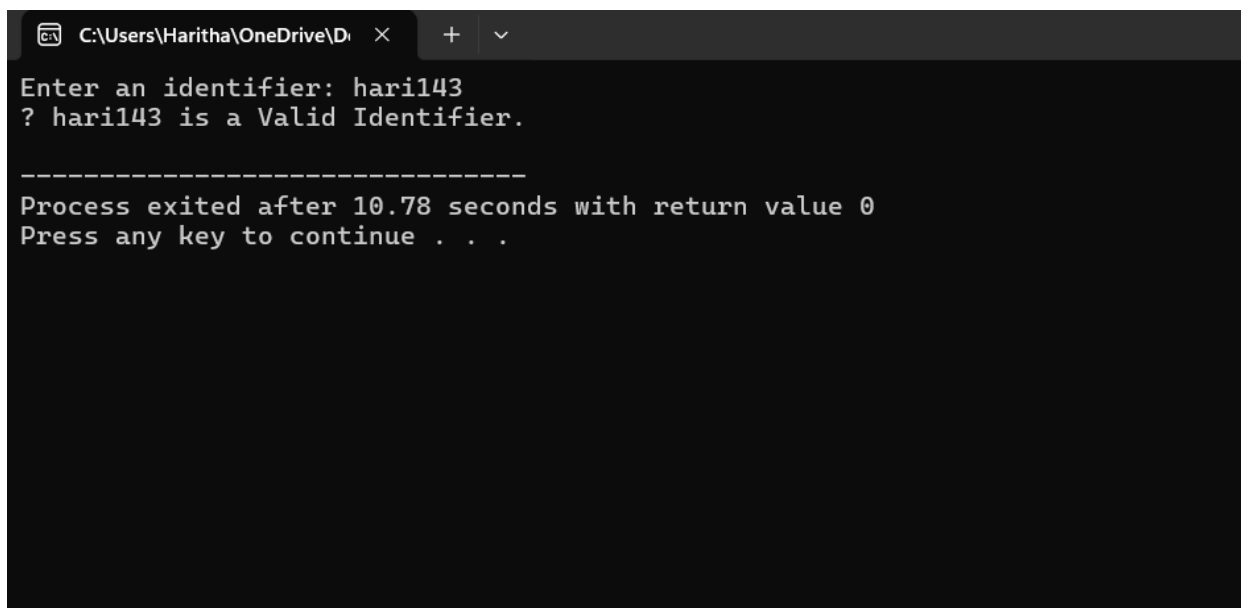## PROGRAM:

```c
#include <stdio.h>
#include <ctype.h>
#include <string.h>
int main() {
    char identifier[50];
    int valid = 1;
    printf("Enter an identifier: ");
    scanf("%s", identifier);
    if (!(isalpha(identifier[0]) || identifier[0] == '_')) {
        valid = 0;
    }
    for (int i = 1; i < strlen(identifier); i++) {
        if (!(isalnum(identifier[i]) || identifier[i] == '_')) {
            valid = 0;
            break;
        }
    }
    if (valid)
        printf("? %s is a Valid Identifier.\n", identifier);
    else
        printf("? %s is NOT a Valid Identifier.\n", identifier);
    return 0;
}
```

Compilation results...
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- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Haritha\OneDrive\Documents\EXP_1.exe
- Output Size: 129.4453125 KiB
- Compilation Time: 0.81s

## OUTPUT:

```
Enter an identifier: hari143
? hari143 is a Valid Identifier.

--------------------------------
Process exited after 10.78 seconds with return value 0
Press any key to continue . . .
```