

Experiment -5

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

Program:

```
#include <stdio.h>
#include <ctype.h>

int isValidIdentifier(char str[]) {
    int i = 0;
    if (!(isalpha(str[0]) || str[0] == '_')) {
        return 0;
    }
    for (i = 1; str[i] != '\0'; i++) {
        if (!(isalnum(str[i]) || str[i] == '_')) {
            return 0;
        }
    }
    return 1;
}

int main() {
    char identifier[50];
    printf("Enter an identifier: ");
    scanf("%s", identifier);

    if (isValidIdentifier(identifier))
        printf("VALID IDENTIFIER\n");
    else
        printf("INVALID IDENTIFIER\n");
    return 0;
}
```

Output:

```
□ C:\Users\raksh\OneDrive\Doc X + | v
Enter an identifier: hello123
VALID IDENTIFIER
-----
Process exited after 3.289 seconds with return value 0
Press any key to continue . . .
```