

## Experiment 5

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

Program:

```
#include <stdio.h>
#include <string.h>
#include <ctype.h>
int isValidIdentifier(char *identifier) {
    if (!(isalpha(identifier[0]) || identifier[0] == '_')) {
        return 0;
    }
    for (int i = 1; i < strlen(identifier); i++) {
        if (!(isalnum(identifier[i]) || identifier[i] == '_')) {
            return 0;
        }
    }
    return 1;
}

int main() {
    char identifier[100];
    printf("Enter an identifier: ");
    scanf("%s", identifier);
    if (isValidIdentifier(identifier)) {
        printf("Valid identifier.\n");
    } else {
        printf("Invalid identifier.\n");
    }

    return 0;
}
```

}

## Output:

```
C:\Users\wawfi\OneDrive\Doc...
Enter an identifier: dishitha
Valid identifier.

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Process exited after 4.544 seconds with return value 0
Press any key to continue . . .
```