

Exp no.5

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

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

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

```
#define MAX_ID_LEN 100
```

```
int isValidIdentifier(char *id) {
```

```
    int i;
```

```
    if (!isalpha(id[0]) && id[0] != '_')
```

```
        return 0;
```

```
    for (i = 1; id[i]; i++) {
```

```
        if (!isalnum(id[i]) && id[i] != '_')
```

```
            return 0;
```

```
    }
```

```
    return 1;
```

```
}
```

```
int main() {
```

```
    char id[MAX_ID_LEN];
```

```
    printf("Enter an identifier: ");
```

```
    scanf("%s", id);
```

```
    if (isValidIdentifier(id))
```

```
        printf("Valid identifier\n");
```

```
    else
```

```
        printf("Invalid identifier\n");
```

```
return 0;
```

```
}
```

C:\Users\saidh\OneDrive\Documents\compiler design\lexical analyzer identifier is valid or not.exe

Enter an identifier: a

Valid identifier

Process exited after 19.15 seconds with return value 0

Press any key to continue . . .