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

#include <stdio.h>

#include <ctype.h>

#include <string.h>

int isValidIdentifier(char \*identifier);

int main() {

char identifier[100];

printf("Enter an identifier: ");

scanf("%s", identifier);

if (isValidIdentifier(identifier)) {

printf("%s is a valid identifier.\n", identifier);

} else {

printf("%s is not a valid identifier.\n", identifier);

}

return 0;

}

int isValidIdentifier(char \*identifier) {

// Check if the first character is a letter or underscore

if (!isalpha(identifier[0]) && identifier[0] != '\_') {

return 0;

}

// Check the remaining characters

for (int i = 1; i < strlen(identifier); i++) {

if (!isalnum(identifier[i]) && identifier[i] != '\_') {

return 0;

}

}

return 1;

}

