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:

