

Aim:

Write a C program that splits a given string into words based on spaces. The program should print each word in a new line.

Input Format:

- The input is a single string containing words separated by spaces.

Output Format:

- The program should output each word in the input string on a new line.

Constraints:

- The string should contain at most 100 characters.

Note:

- Add a new line char "\n" at the end of output.

Source Code:**splitstring.c**

```
#include<stdio.h>
#include<string.h>
#define MAX_STRING_LENGTH 100
int main(){
    char str[MAX_STRING_LENGTH];
    char *token;
    fgets(str, sizeof(str), stdin);
    str[strcspn(str, "\n")] = '\0';
    token = strtok(str, " ");
    while (token != NULL){
        printf("%s\n", token);
        token = strtok(NULL, " ");
    }
    return 0;
}
```

Execution Results - All test cases have succeeded!

Test Case - 1**User Output**

Hello world!!

Hello

world!!

Test Case - 2**User Output**

This is a C program

This

is
a
C
program