

Bangladesh University of Engineering and Technology
Department of Computer Science and Engineering
CSE 310: Compiler Sessional
A2 Online
20 June 2022

1. Task

The macro in C language is known as the piece of code which can be replaced by the macro value. **#define** is a preprocessor directive that is used to define macros in a C program. It is represented as -

#define C_NAME value

C_NAME - Name of the constant value or the expression. For example, PI or abc. It is not necessary for C_NAME to be uppercase.

value - It can be any constant value and can be of any data type int, char, float, string, etc.

Examples of macro preprocessors with values:

#define NICE "nice"

#define PI 3.1415

#define num 3.48E20

Your task is to detect **#define** macros and you would need to specify what type of macro was detected. For example - **#define** number 30.1 will be detected as

MACRO #define number 30.1 (MACRO WITH VALUE) DETECTED

You must do it in a new lex file (not rewrite it over a copy of your offline).

2. Mark Distribution

Macros with values - 10

3. Submission Guideline

Name the .l file with your student id. Keep this file in a folder named by your student id. Zip the folder and upload it.