

# **ONLINE COMPILER USING CLOUD COMPUTING**

## **USER MANUAL**

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## 1. General Information

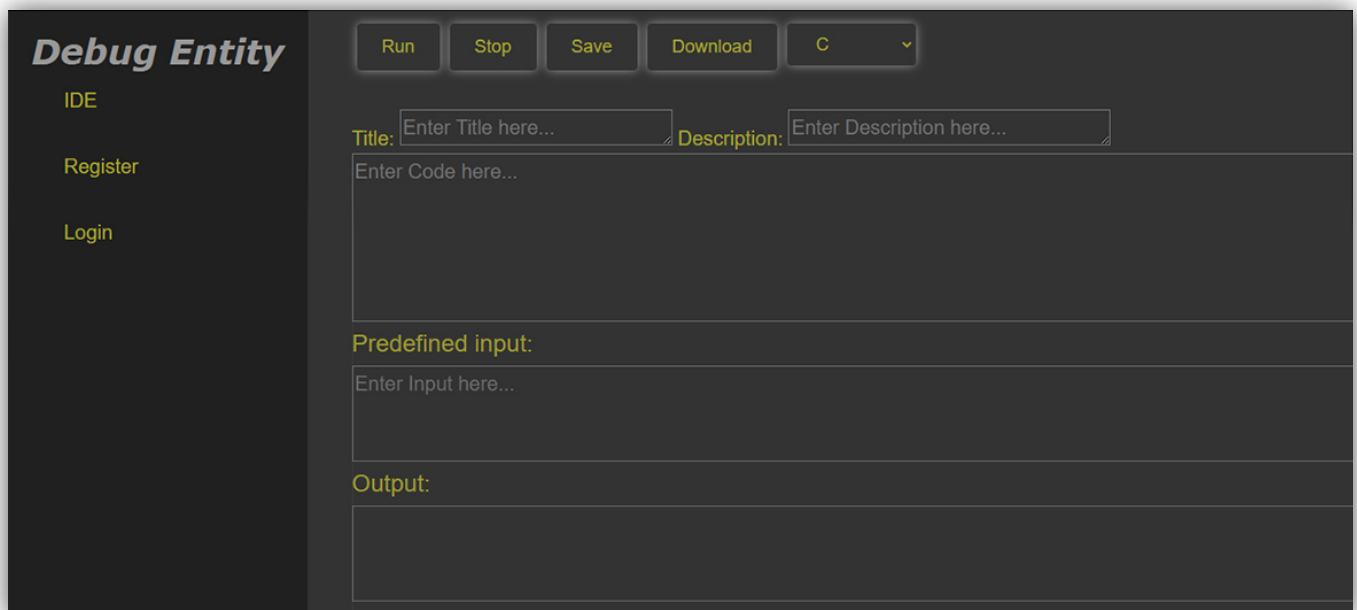
Welcome to the Online compiler user guide, Cloud based application. The idea for the Online Compiler came out of a need for a tool to give a successful use of the web-based interface to compilers for every student, working professionals, and people collaborating in teams for a quick and accurate compilation of codes with the most demanding multiple coding languages support such as Java, Python, C/C++, and c#. This allows users to create, open, share and delete their source code. This application has features like save code over the web and download code for an authenticated user.

### System Overview

An online compiler based on cloud platform for every student, working professionals, and people collaborating in teams for a quick and accurate compilation of codes with multiple supporting coding languages, code saving feature in the dedicated database for an authenticated/registered user.

## 2. Homepage

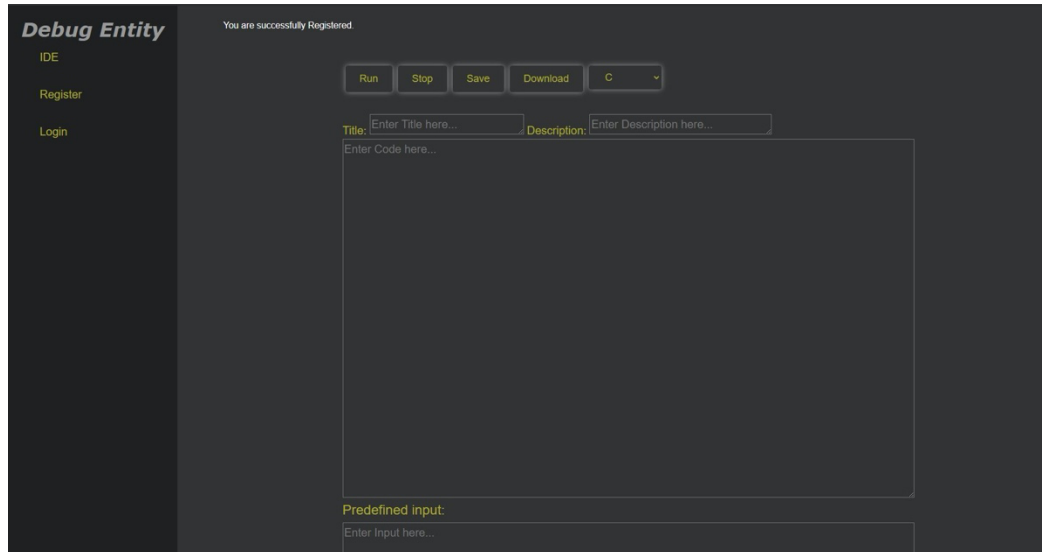
We are now at the Homepage where you have access to features like run, stop, share and save the code for future use and download the code snippet. There is a drop-down menu which allows you to select the programming languages in which you want to write the code. As you can see, there are three text areas for entering source code, another for entering predefined input and the last one is for the output. On the left side, there is a Navigation bar which provides access to IDE, Register and Login page.



The screenshot displays the homepage of the 'Debug Entity' online compiler. On the left, a dark sidebar contains the application name 'Debug Entity' in a stylized font, and three navigation links: 'IDE', 'Register', and 'Login'. The main content area has a dark background. At the top, there are five buttons: 'Run', 'Stop', 'Save', 'Download', and a language dropdown menu currently set to 'C'. Below these buttons, there are two input fields labeled 'Title:' and 'Description:'. The 'Title:' field is followed by a large text area labeled 'Enter Code here...'. Below the code area is a section labeled 'Predefined input:' with an input field labeled 'Enter Input here...'. At the bottom is a section labeled 'Output:' with a large text area for displaying the results.

## 2.1 Compile Source Code

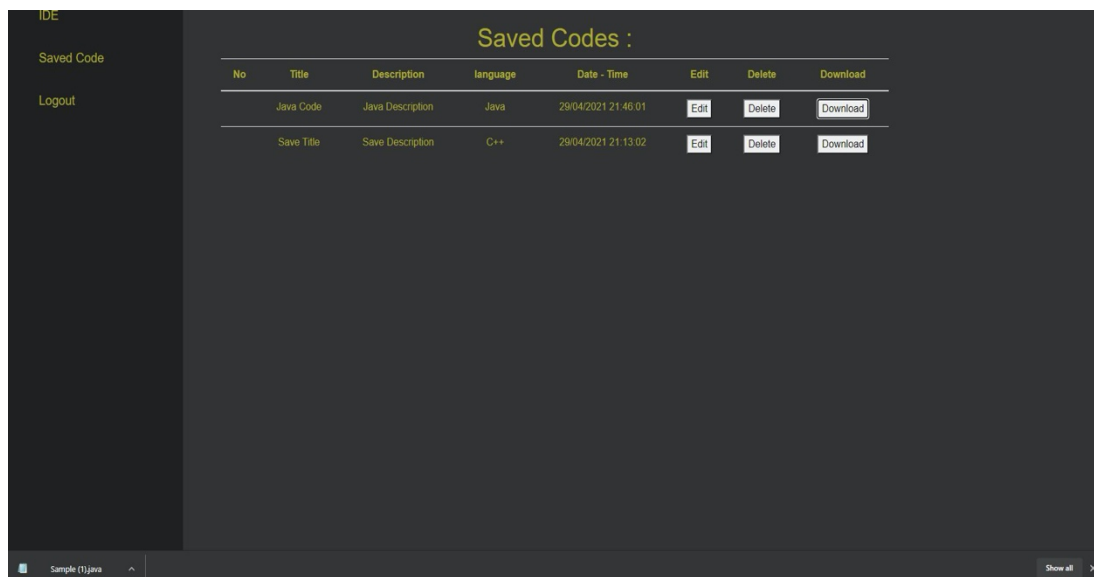
For using the compilation feature, you must select one of the five programming languages (i.e., C, C++, Java, C# and Python) that ONCC provides as shown in the image. After selecting the programming language, you can now write your code in the “Code” text area. If you want to enter any predefined input, you must enter it in the “Predefined Input” text area. After clicking on “Run” button, you can see the output in the “Output” text area.



## 2.2 Download source code

After compiling code, you can download your code by clicking on “Download” button from the menu bar. After clicking the “Download” button a file will be automatically downloaded in your system.

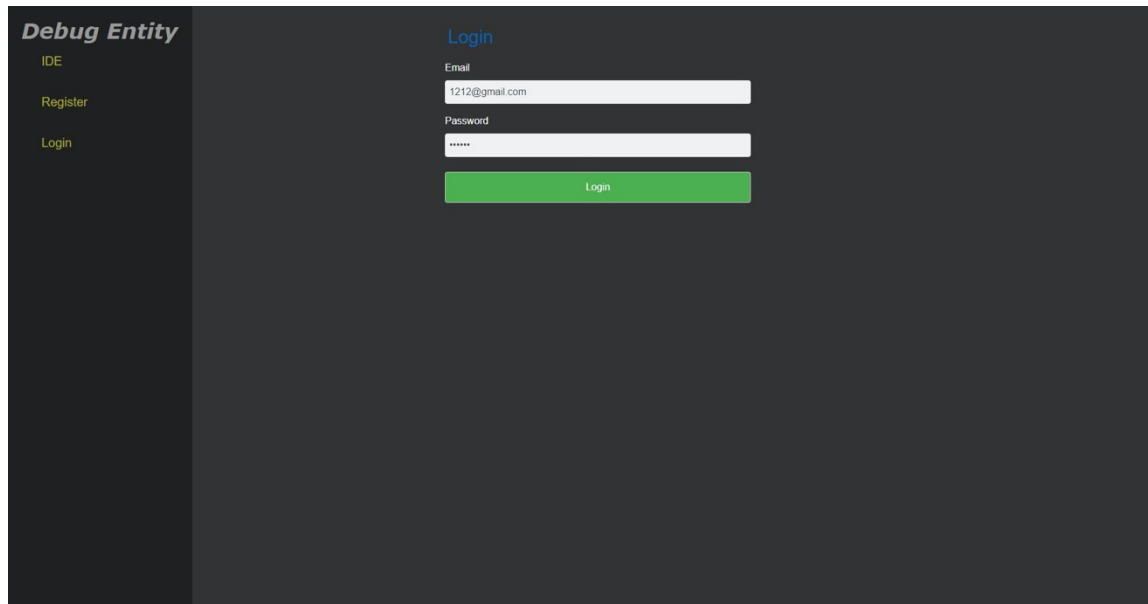
In order to download your saved code, you must sign in and then you can see a “My code” option on the Navigation bar. Click on the “My code” and now you can see the list of saved code.



### 3. The Login Page

It is not necessary for the guest user to register/login for using ONCC. However, if you want to save or share the code for future use then you must register first.

You can sign in/Login to the ONCC website by visiting [www.oncc.com](http://www.oncc.com) . To sign in, click on the “Login” button from the Navigation bar. Now you can see a login page as shown below.

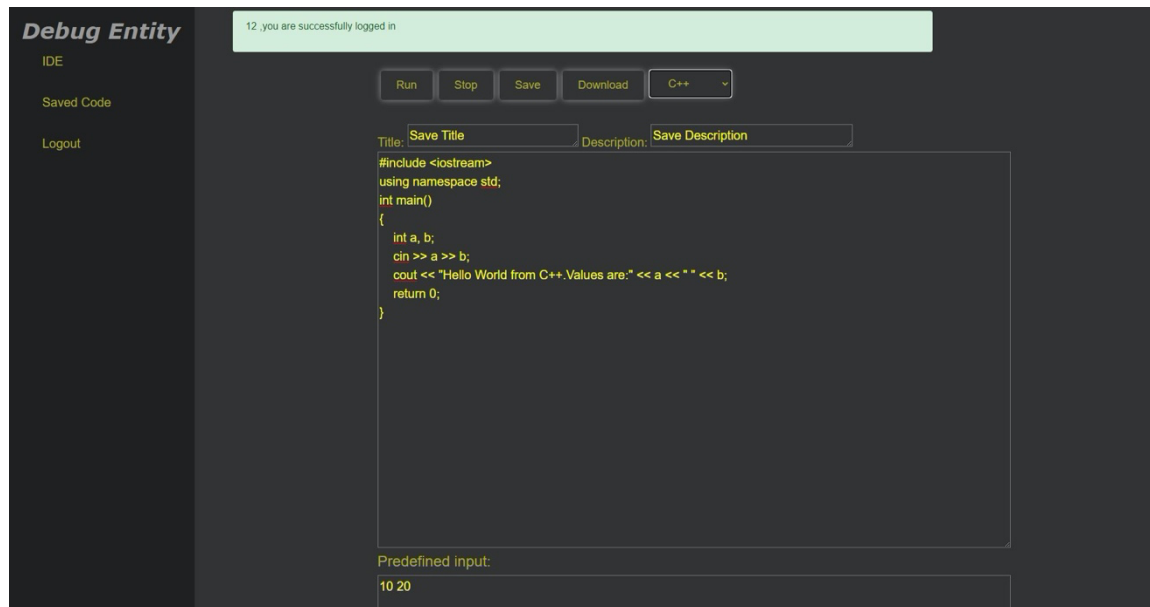
The screenshot shows a dark-themed web interface. On the left, a vertical sidebar contains the text "Debug Entity" in a light blue font, followed by "IDE" in yellow, and "Register" and "Login" in green. The main area on the right is dark grey and features a "Login" heading in blue. Below the heading are two white input fields: the first is labeled "Email" and contains the text "1212@gmail.com", and the second is labeled "Password" and contains six dots. A green "Login" button is positioned below the password field.

This page has a security feature that keeps the unauthorized user to access your saved code. You must first enter a correct username and password in order to proceed the login page.

- Username - You must fill in a correct username here
- Password - A correct password must be entered at this stage.
- Login button – This button allows you to Login. The system will attempt to login, once the button is pressed.

#### Successful Sign in

After entering username and password hit the “Login” button and then you will be redirected to the Homepage. On the Homepage a message will be displayed “You have been successfully logged in” as shown below,



### 3.1 User Registration

To register, you must first fill out all the required fields and then press the “Register now” button. The following screenshot shows a filled-out version of the registration form.

The screenshot shows the Debug Entity Register form. The form has the following fields:

- Email: DemoTest@gmail.com
- Password: (masked with asterisks)
- Confirm Password: (masked with asterisks)
- First Name: Demo
- Last Name: Test

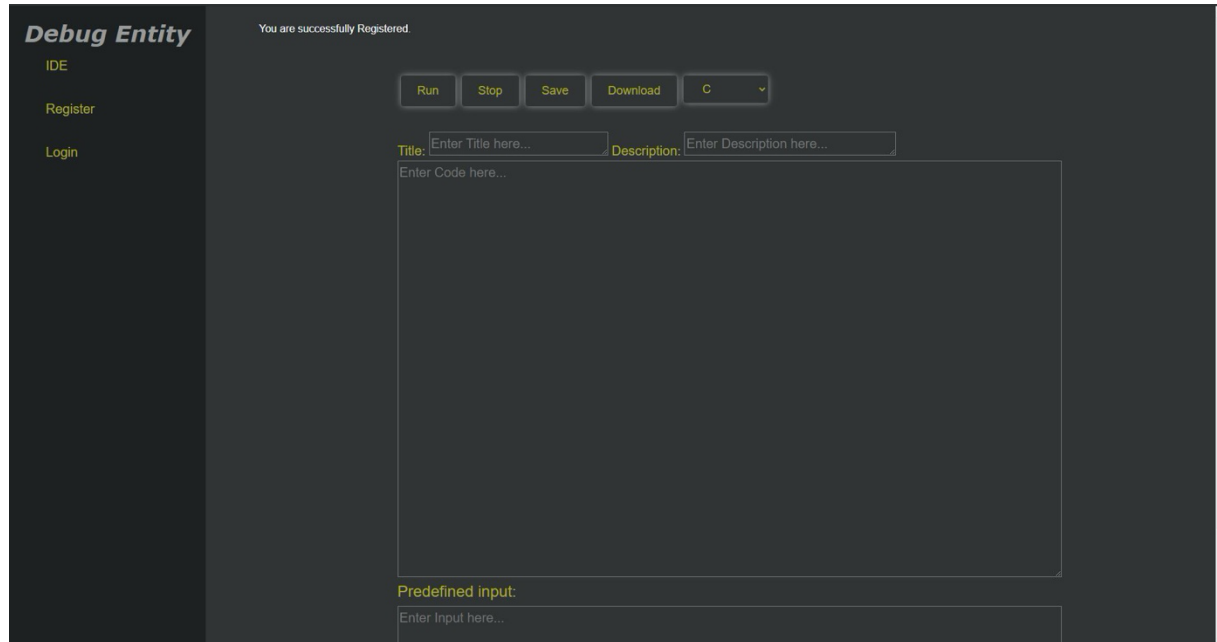
At the bottom of the form is a green button labeled "Register now".

- Email – You must enter your valid email address here. This will be the username which will be used when you login.
- Password – This is where you will enter your desired password. The password must be at least six characters long.
- Confirm Password – This field must have the same password as the password field.
- First Name – This is where you must enter your first name.

- Last Name - This is where you must enter your last name.
- Register now button – This button allows you to submit the registration form. The system will attempt to register, once the button is pressed.

### Successful Registration

If all fields are correctly filled out, the “Register now” button is pressed and the ONCC is able to register the new User account then the message “You have successfully registered” will appear on the Homepage as shown below:



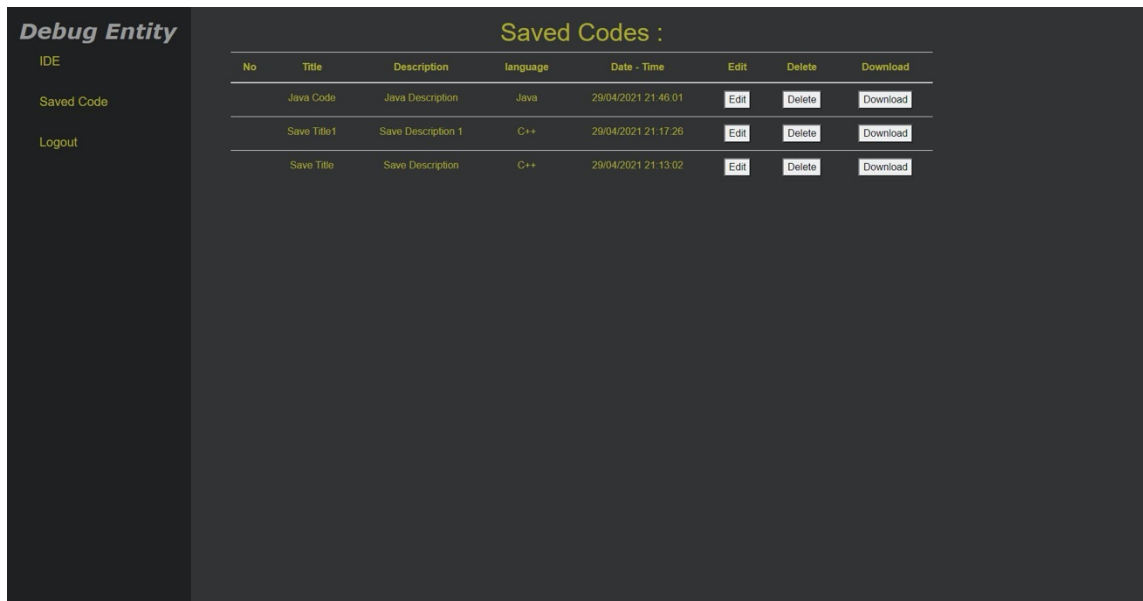
## 4. Save source code

To save the compiled code (remember that you must register an account to save code), you should sign in on ONCC. To sign in, click on the “Login” button from the left Navigation bar. Once you are logged in on ONCC, you will be redirected to the Home page as shown below and you can now see options for IDE, my code and logout (options will be changed in navigation bar after you hit the save button) on the Navigation bar.

After compiling source code, you have to click on “Save” button from the top menu bar. After clicking “Save” button, a window will be opened where you have to fill various fields and then click on “submit” as shown in the image. You can see a message “you have successfully saved your code”.

#### 4.1 How to retrieve saved code

After clicking on “My code”, you will be redirected to a new page where you can see the list of your saved code with Title, Description, Language and Date/Time and you have options to Edit, Download and Delete your Saved code (detail information of these options is in section 3.2).



Saved Codes :							
No	Title	Description	language	Date - Time	Edit	Delete	Download
	Java Code	Java Description	Java	29/04/2021 21:46:01	Edit	Delete	Download
	Save Title1	Save Description 1	C++	29/04/2021 21:17:26	Edit	Delete	Download
	Save Title	Save Description	C++	29/04/2021 21:13:02	Edit	Delete	Download

#### 4.2 Saved code options

On the saved code page, you will see a list of programs with Title, Description, Language and Date/Time and you have options to Edit, Download and Delete your Saved code

Following is the description of various option:

- Title- Title is the name of the Program that you used while saving the code.
- Description- This field is optional. Here you can see additional information about your saved code
- Language- This field will display the programming language used to compile your code.
- Date/Time- This field display the date and time when you saved your code.
- Edit- If you want to make any changes in your existing code then you can just click on “edit” button.
- Download- You can download your saved code by clicking on “Download” (there is one more “download” button on the Homepage). After clicking “Download”, a file will be downloaded in your system.
- Delete- This button is used to remove your saved code from the list.