

# An Introduction to Prutor

(for students)

[esc101.cse.iitk.ac.in](http://esc101.cse.iitk.ac.in)



# Prutor

Intelligent Tutoring System For Programming

*ESC101*

## Sign In

 Login

# Credentials

USER ID - Your IITK CC ID (E.g. [XXXX20@iitk.ac.in](#))

Password - Your IITK CC ID Password

# Opening Screen

Prutor ESC101

CodeBook Practice Scratchpad 2 Abhyuday Pandey

## Ongoing Event

**Sample** Live event here

Ends on **Wed Nov 25 2020 at 23:59:00**

Q11	20 Points	not-submitted	<a href="#">Start Coding</a>
Q12	20 Points	not-submitted	<a href="#">Start Coding</a>

**GRADE CARD** Marks in all labs

## Course Statistics

### Course Problems

Submitted	0
Not Submitted	2

### Course Events

Labs	1
Exams	0
Quizzes	0

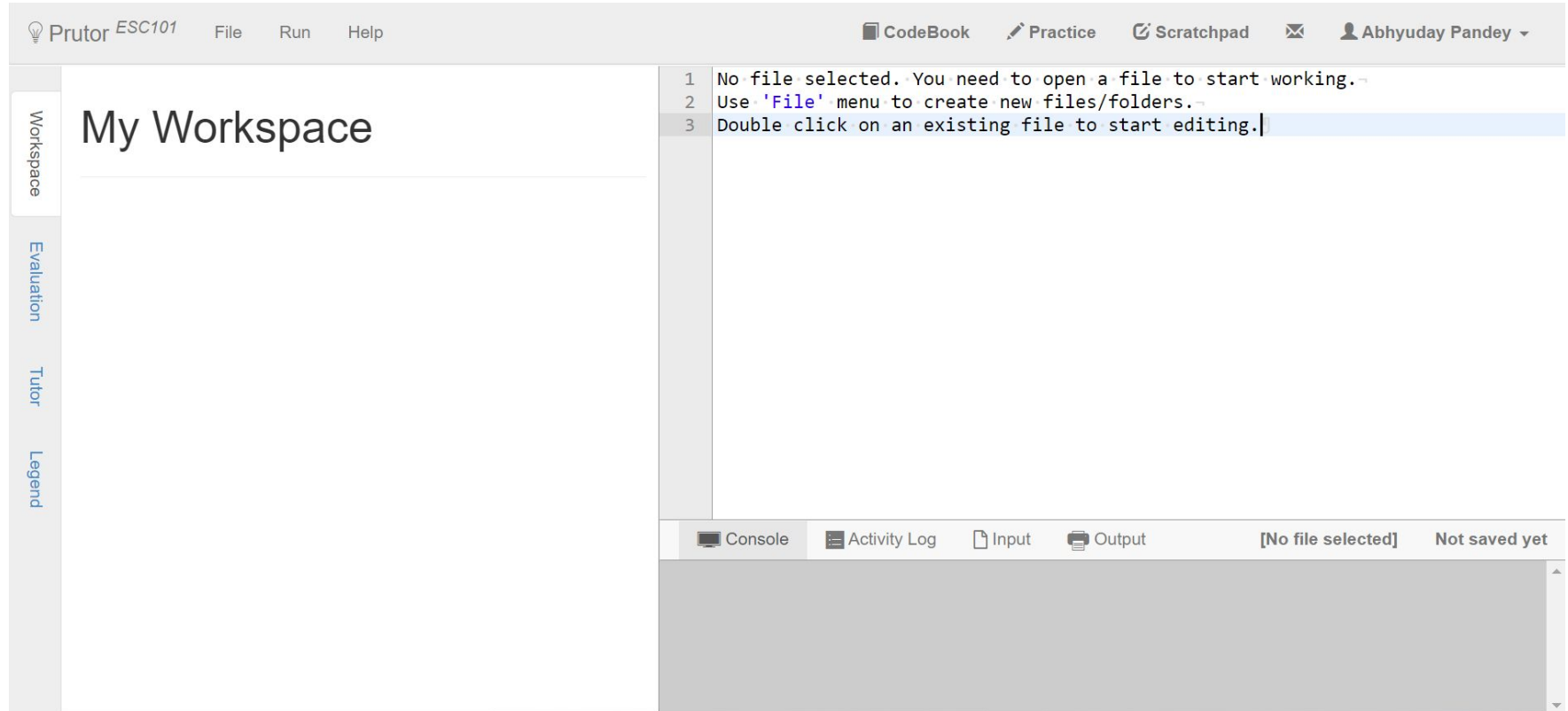
# Codebook

See your submitted codes here.

# Practice

- Previous Week's lab question or Practice questions will be uploaded here.

# Scratchpad - Your Workplace



The screenshot displays the Scratchpad interface. At the top, the header includes the Prutor logo with 'ESC101', a 'File' menu, and 'Run' and 'Help' buttons. On the right side of the header, there are icons for 'CodeBook', 'Practice', 'Scratchpad', and a user profile for 'Abhyuday Pandey'. A vertical sidebar on the left contains navigation links for 'Workspace', 'Evaluation', 'Tutor', and 'Legend'. The main workspace area is titled 'My Workspace' and contains a large empty space. To the right of the workspace is a code editor with three lines of text: '1 No file selected. You need to open a file to start working.', '2 Use 'File' menu to create new files/folders.', and '3 Double click on an existing file to start editing.' The bottom of the interface features a status bar with tabs for 'Console', 'Activity Log', 'Input', and 'Output'. The status bar also displays '[No file selected]' and 'Not saved yet'.

Prutor *ESC101* File Run Help

CodeBook Practice Scratchpad Abhyuday Pandey

Workspace

My Workspace

Evaluation

Tutor

Legend

```
1 No file selected. You need to open a file to start working.
2 Use 'File' menu to create new files/folders.
3 Double click on an existing file to start editing.
```

Console Activity Log Input Output [No file selected] Not saved yet

# Scratchpad - Create New File

The screenshot displays the Prutor ESC101 Scratchpad interface. The top navigation bar includes the Prutor ESC101 logo, a 'File' menu, and buttons for 'Run' and 'Help'. On the right side of the top bar, there are links for 'CodeBook', 'Practice', 'Scratchpad', and a user profile for 'Abhyuday Pandey'. A vertical sidebar on the left contains navigation options: 'Workspace', 'Evaluation', 'Tutor', and 'Legend'. The main workspace area is titled 'My W' and is currently empty. The 'File' menu is open, showing options: 'New File', 'New Folder', 'Save', 'Submit', 'Download', and 'Upload'. The 'New File' option is highlighted. The right-hand side of the interface features a code editor with three lines of text: '1 No file selected. You need to open a file to start working.', '2 Use 'File' menu to create new files/folders.', and '3 Double click on an existing file to start editing.'. The third line is selected. At the bottom, a status bar contains tabs for 'Console', 'Activity Log', 'Input', and 'Output', along with the text '[No file selected]' and 'Not saved yet'.

Prutor ESC101 File Run Help

CodeBook Practice Scratchpad Abhyuday Pandey

Workspace

My W

New File

New Folder

Save

Submit

Download

Upload

1 No file selected. You need to open a file to start working.

2 Use 'File' menu to create new files/folders.

3 Double click on an existing file to start editing.

Console Activity Log Input Output [No file selected] Not saved yet



# intro.c

The screenshot shows the Prutor IDE interface. At the top, the title bar reads "Prutor ESC101" with a lightbulb icon, followed by menu items "File", "Run", and "Help". On the right side of the title bar, there are icons for "CodeBook", "Practice", "Scratchpad", and a user profile for "Abhyuday Pandey".

On the left side, a vertical sidebar contains the labels "Workspace", "Evaluation", "Tutor", and "Legend". The "Workspace" section is active, displaying "My Workspace" and a file named "intro.c".

The main editor area shows a file named "intro.c" with the following C code:

```
1 #include<stdio.h>
2
3 int main(){
4     printf("Hello World!");
5 }
```

At the bottom of the IDE, there is a panel with tabs for "Console", "Activity Log", "Input", and "Output". The "Output" tab is selected, showing the text "[intro.c]" and the time "11:35:44 AM".

# File > Save, Run > Compile, Run > Execute

The screenshot displays the Prutor IDE interface. The top menu bar includes 'Prutor ESC101', 'File', 'Run', and 'Help'. On the right, there are icons for 'CodeBook', 'Practice', and 'Scratchpad', along with a user profile for 'Abhyuday Pandey'. A green notification box in the top right corner contains a checkmark and the text: 'Your program executed successfully! See the output window to view the output of this program.'

The main workspace is titled 'My Workspace' and contains a file named 'intro.c'. The code editor shows the following C code:

```
1 #include<stdio.h>
2
3 int main(){
4     printf("Hello World!");
5 }
```

The bottom status bar shows 'Console', 'Activity Log', 'Input', and 'Output' tabs. The 'Output' tab is active, displaying 'Hello World!' in a dark window, which is highlighted with a green border. The status bar also shows '[intro.c]' and the time '11:37:24 AM'.

# Try out yourself!

Try the Run > Visualize feature.

It shows step-by-step execution of code.

# Live event - Start Coding!

The screenshot displays the Prutor IDE interface for a C programming problem. The top bar shows the Prutor logo, course name 'ESC101', and menu options 'File', 'Run', and 'Help'. On the right side of the top bar, there are icons for 'CodeBook', 'Practice', 'Scratchpad', and a user profile for 'Abhyuday Pandey'.

The left sidebar contains navigation links: 'Problem', 'Evaluation', 'Tutor', and 'Legend'. The main content area is divided into two sections:

- Problem Statement:** A box containing the text: "Write a C program to print the below output  
Hello ESC101!"
- Note:** A box containing a list of instructions:
  - Use **printf** to print the given output exactly.
  - Click on the **Evaluate** button to test your code.
  - Multiple submissions are allowed, but only the final submission will be graded. Zero marks will be awarded if no submission is made.

The right side of the interface is a code editor showing the following C code:

```
1 #include<stdio.h>
2
3 int main(){
4     printf ("Hello ESC101!");
5     return 0;
6 }
```

At the bottom of the IDE, there are tabs for 'Console', 'Activity Log', 'Input', and 'Output'. A status bar on the right indicates 'Last saved at 11:42:36 AM'.

# Steps

- Run > Compile
- Run > Execute
- Run > Evaluate

On the left sided see how many test cases passed.

The screenshot shows the Prutor IDE interface for a C program. The top menu bar includes 'Prutor ESC101', 'File', 'Run', 'Help', 'CodeBook', 'Practice', 'Scratchpad', and a user profile 'Abhyuday Pandey'. The left sidebar has tabs for 'Problem', 'Evaluation', 'Tutor', and 'Legend'. The main area is split into two panes: the left pane shows the 'Evaluation' results, and the right pane shows the source code.

**Evaluation**

11:44:42 AM

**Evaluation Results**

Your program passed 1 out of 1 visible test case(s).

#	INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT	
1		Hello ESC101!	Hello ESC101!	✓

Your program passed 1 out of 1 hidden test case(s).  
NOTE: These may not be the only hidden test cases that your program be evaluated upon.

```
1 #include<stdio.h>
2
3 int main(){
4     printf ("Hello ESC101!");
5     return 0;
6 }
```

Console Activity Log Input Output Last saved at 11:42:36 AM

Program accepted.

# Final steps

- File > Save (Do it regularly)
- File > Submit (Submit for evaluation)
- Submit as many times as you want :)
- Final submission will be considered for grading.

Try out Run > Visualize in this case as well!

End