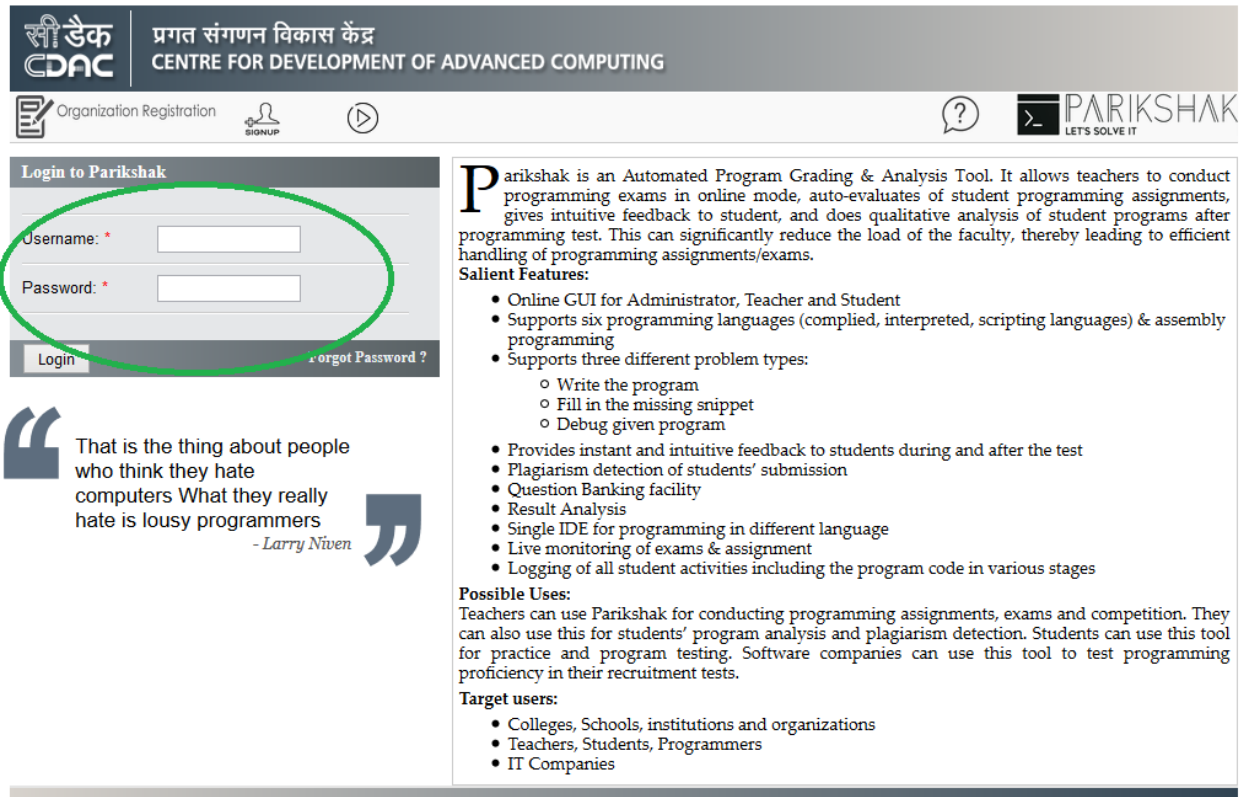


Parikshak - User Manual

1. Home Screen



The screenshot shows the Parikshak Home Screen. At the top, there is a header with the CDAC logo and the text "प्रगत संगणन विकास केंद्र" and "CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING". Below the header, there are links for "Organization Registration" and "SIGNUP". The main content area is divided into two columns. The left column contains a "Login to Parikshak" form with fields for "Username" and "Password", a "Login" button, and a "Forgot Password?" link. The right column contains a paragraph about Parikshak, its salient features, possible uses, and target users. Below the login form, there is a quote by Larry Niven: "That is the thing about people who think they hate computers. What they really hate is lousy programmers."

Login to Parikshak

Username: *

Password: *

Login [Forgot Password ?](#)

That is the thing about people who think they hate computers. What they really hate is lousy programmers
- Larry Niven

Parikshak is an Automated Program Grading & Analysis Tool. It allows teachers to conduct programming exams in online mode, auto-evaluates of student programming assignments, gives intuitive feedback to student, and does qualitative analysis of student programs after programming test. This can significantly reduce the load of the faculty, thereby leading to efficient handling of programming assignments/exams.

Salient Features:

- Online GUI for Administrator, Teacher and Student
- Supports six programming languages (compiled, interpreted, scripting languages) & assembly programming
- Supports three different problem types:
 - Write the program
 - Fill in the missing snippet
 - Debug given program
- Provides instant and intuitive feedback to students during and after the test
- Plagiarism detection of students' submission
- Question Banking facility
- Result Analysis
- Single IDE for programming in different language
- Live monitoring of exams & assignment
- Logging of all student activities including the program code in various stages

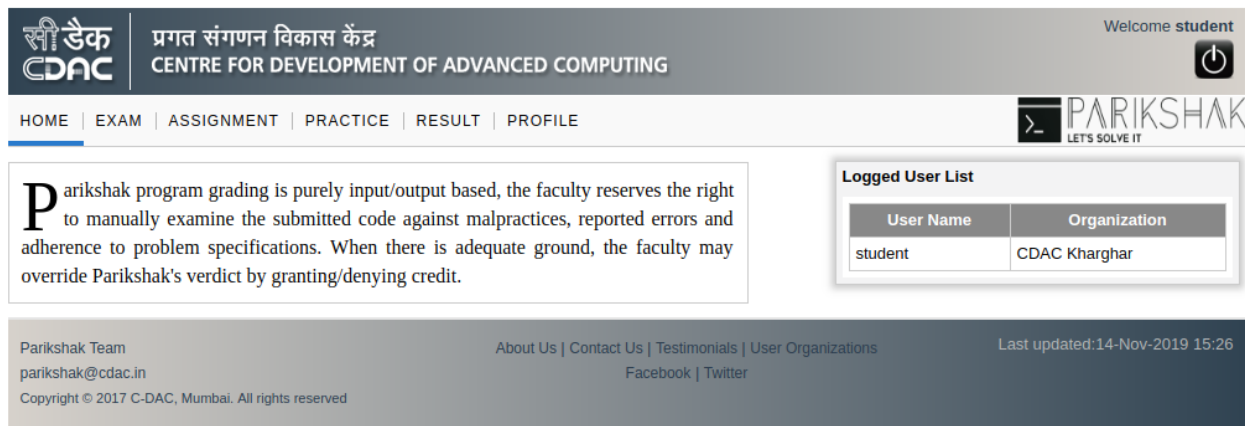
Possible Uses:
Teachers can use Parikshak for conducting programming assignments, exams and competition. They can also use this for students' program analysis and plagiarism detection. Students can use this tool for practice and program testing. Software companies can use this tool to test programming proficiency in their recruitment tests.

Target users:

- Colleges, Schools, institutions and organizations
- Teachers, Students, Programmers
- IT Companies

Login with your username, password(can be modified)

2. Welcome Screen : After successful login, "Welcome screen" will be shown.



The screenshot shows the Parikshak Welcome Screen. At the top, there is a header with the CDAC logo and the text "प्रगत संगणन विकास केंद्र" and "CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING". Below the header, there are links for "HOME", "EXAM", "ASSIGNMENT", "PRACTICE", "RESULT", and "PROFILE". The main content area is divided into two columns. The left column contains a paragraph about Parikshak program grading. The right column contains a "Logged User List" table. Below the main content, there is a footer with contact information and social media links.

Welcome student

Parikshak program grading is purely input/output based, the faculty reserves the right to manually examine the submitted code against malpractices, reported errors and adherence to problem specifications. When there is adequate ground, the faculty may override Parikshak's verdict by granting/denying credit.

Logged User List

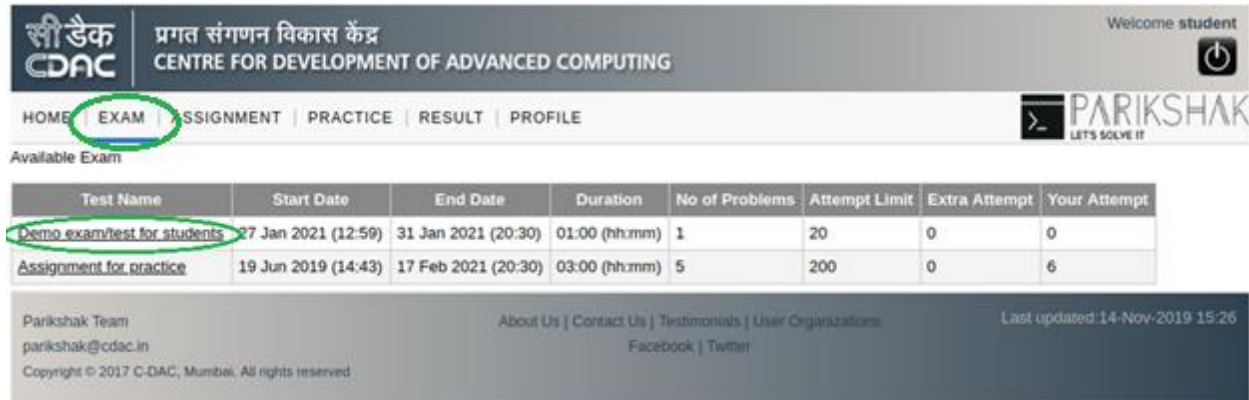
User Name	Organization
student	CDAC Kharghar

Parikshak Team
parikshak@cdac.in
Copyright © 2017 C-DAC, Mumbai. All rights reserved

About Us | Contact Us | Testimonials | User Organizations
Facebook | Twitter

Last updated:14-Nov-2019 15:26

3. Enter Exam : To appear in the exam, select on the “Exam” tab. All available exams will be listed. Click on the exam which you want to appear in. For eg. “Demo exam/test for students”.



सी डैक CDAC प्रगत संगणन विकास केंद्र CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

Welcome student

HOME | **EXAM** | ASSIGNMENT | PRACTICE | RESULT | PROFILE

PARIKSHAK LET'S SOLVE IT

Available Exam

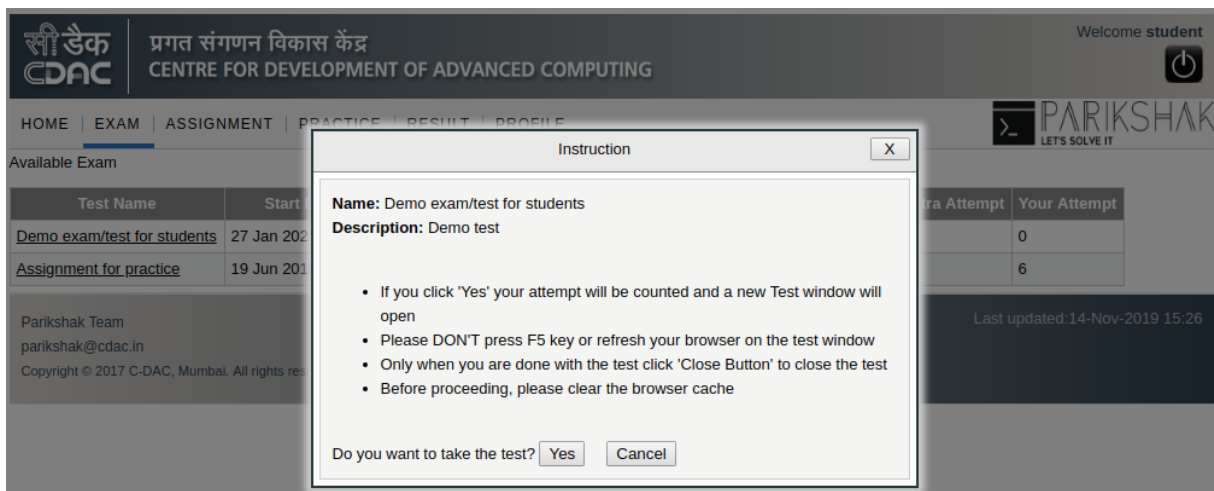
Test Name	Start Date	End Date	Duration	No of Problems	Attempt Limit	Extra Attempt	Your Attempt
<u>Demo exam/test for students</u>	27 Jan 2021 (12:59)	31 Jan 2021 (20:30)	01:00 (hh:mm)	1	20	0	0
<u>Assignment for practice</u>	19 Jun 2019 (14:43)	17 Feb 2021 (20:30)	03:00 (hh:mm)	5	200	0	6

Parikshak Team
parikshak@cdac.in
Copyright © 2017 C-DAC, Mumbai. All rights reserved.

About Us | Contact Us | Testimonials | User Organizations
Facebook | Twitter

Last updated: 14-Nov-2019 15:26

4. After clicking on the exam you want to appear at, the system will show you the instructions message related to the exam. Read the instructions carefully and click on the “Yes” button if you want to proceed and take the exam.



सी डैक CDAC प्रगत संगणन विकास केंद्र CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

Welcome student

HOME | **EXAM** | ASSIGNMENT | PRACTICE | RESULT | PROFILE

PARIKSHAK LET'S SOLVE IT

Available Exam

Test Name	Start Date
<u>Demo exam/test for students</u>	27 Jan 2021
<u>Assignment for practice</u>	19 Jun 2019

Parikshak Team
parikshak@cdac.in
Copyright © 2017 C-DAC, Mumbai. All rights reserved.

Instruction

Name: Demo exam/test for students
Description: Demo test

- If you click 'Yes' your attempt will be counted and a new Test window will open
- Please DONT press F5 key or refresh your browser on the test window
- Only when you are done with the test click 'Close Button' to close the test
- Before proceeding, please clear the browser cache

Do you want to take the test?

Extra Attempt Your Attempt

0	0
6	6

Last updated: 14-Nov-2019 15:26

5. After clicking on “Yes”, the exam will get started and the timing counter will also get started. The system will show the time left for the exam. Follow the below steps to start solving the problem:
- Select the problem from the given dropdown list – ‘Select Problem’
 - Enter the “Filename” with extension
 - Select the “Programming Language” from the given dropdown list – ‘Select Language’

After this user can view the problem statement, input/output specification, sample input/out. User can also view/recover the last submitted code (which was submitted to the grader).

The screenshot displays the CDAC Parikshak exam interface. At the top, the header includes the CDAC logo, the text 'प्रगत संगणन विकास केंद्र' and 'CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING', and a 'Welcome student' message. A 'Time Left: 00:59:49' timer is visible, along with a 'Hide' button. The 'PARIKSHAK LET'S SOLVE IT' logo is on the right, with the text 'Demo exam/test for students' below it. A dropdown menu for 'Select Problem' is open, showing options: 'Select Problem', 'Add Two Numbers', and 'Problem statement'. The 'Problem statement' option is highlighted with a green circle. Below the dropdown, there are buttons for 'Last attempt code' and 'Recover Code'. A 'Select Language' dropdown and a 'Filename:' input field are also present. The main area features a code editor with a toolbar (New Tab, Full Screen, Syntax, Font size, Theme, Word Wrap, Shortcut) and a 'Toggle editor' checkbox. The editor shows a single line of code. To the right, there is a 'Provide your own test cases:' section with an 'Input' field and a 'Toggle editor' checkbox. Below this is an 'Output:' section. At the bottom, there are buttons for 'Compile', 'Self Assessment', 'Submit to Grader', and 'Close Test'.

6. In the problem statement tab, user will get the detailed statement of the selected problem. The user can see input/output specification (format in which program should accept input and the format in which output of the program is expected) and sample input/output of the problem. Select the language, write the file name and start coding. To compile the code, click on “Compile”. The user can test / check their program by giving their own input and clicking on “Self assessment”.

The screenshot displays the CDAC Parkshak online coding environment. At the top, the header includes the CDAC logo, the text "प्रगत संगणन विकास केंद्र" and "CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING", a "Welcome student" message, and a "Time Left: 00:53:14" timer. Below the header, there are navigation tabs: "Add Two Numbers", "Last attempt code", and "Recover Code". The main interface is divided into several sections. On the left, the "Problem Statement" tab is selected and circled in green, showing the instruction: "You have to write a C program to add two numbers". Below this, a code editor shows a C program for adding two numbers, with the filename "test.c" and language "C (4.8.3)". On the right, the "Provide your own test cases:" section is visible, with an "input" tab selected and circled in orange, showing the input "1 3 6". Below this, the "Output:" section shows the execution results, with the output "Enter two numbers: Sum: 9" circled in orange. At the bottom, there are three buttons: "Compile", "Self Assesment" (circled in orange), and "Submit to Grader". A "Close Test" button is also present in the bottom right corner.

CDAC
प्रगत संगणन विकास केंद्र
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

Welcome student

Time Left: 00:53:14 Hide

PARIKSHAK
LET'S SOLVE IT

Demo exam/test for students

Add Two Numbers Last attempt code Recover Code

Problem Statement Input Specification Output Specification Sample I/O

You have to write a C program to add two numbers

C (4.8.3) Filename: test.c

New Tab Full Screen C Font size Theme Word Wrap Shortcut

test.c

```
1 #include<stdio.h>
2 int main()
3 {
4     int a, b, sum;
5     printf("Enter two numbers: ");
6     scanf("%d %d", &a, &b);
7     sum = a + b;
8     printf("Sum: %d", sum);
9     return 0;
10 }
11 }
```

Ln: 4, Ch: 1, | Total Ln: 11

Toggle editor

Provide your own test cases:

New Tab Font size Word Wrap Shortcut

input

1 3 6

Ln: 0, Ch: 3, | Total Ln: 1

Toggle editor

Output:

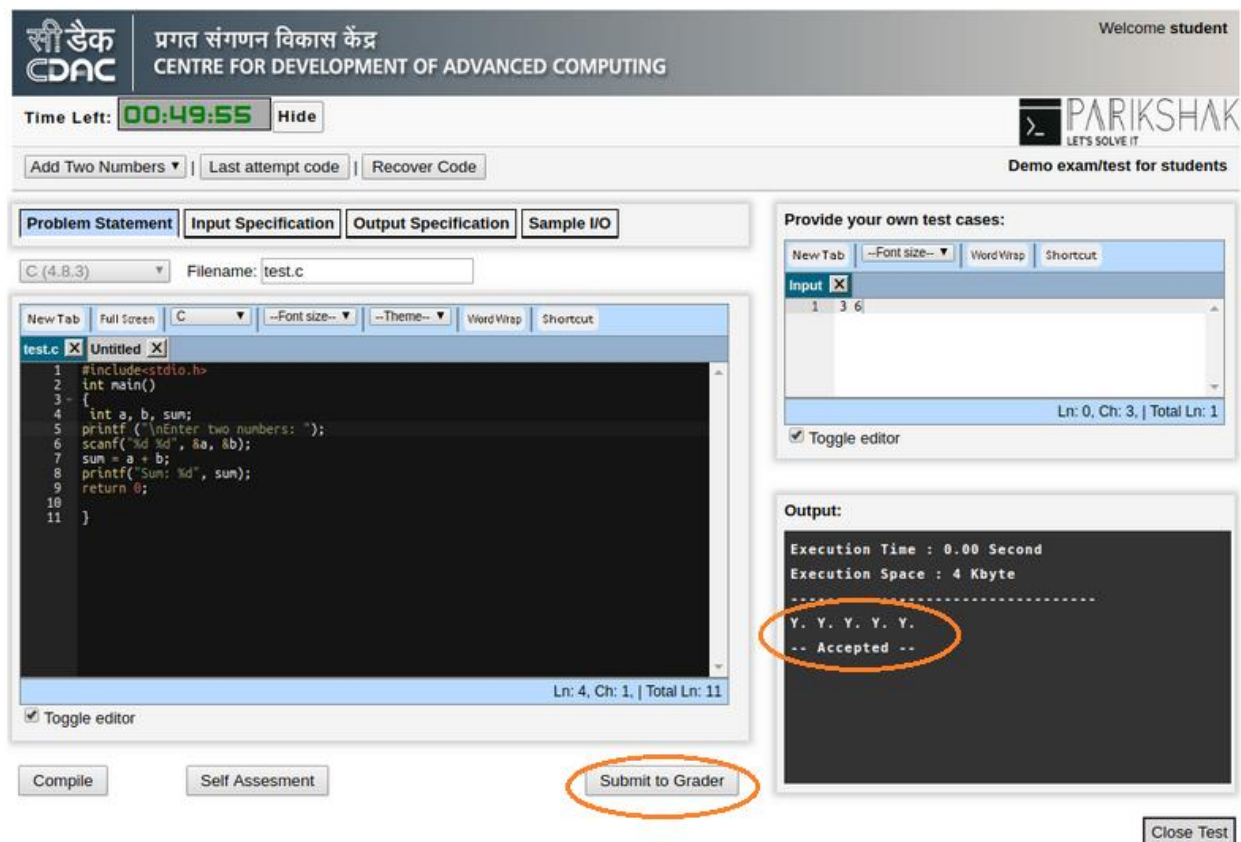
Execution Time : 0.01 Second
Execution Space : 4 Kbyte
.....
Enter two numbers: Sum: 9

Close Test

Compile Self Assesment Submit to Grader

7. Once you have completed the code and checked with your test cases and want to submit your code to the grader, then click on “Submit to Grader”. The grader will test your code check for different test cases (grader’s test cases) and will show the result in the form of “Y” or “X” against each grader’s test case where “Y” means the program has passed the test case and “X” means the program has failed for the test case. The grader’s test cases are not shown to the user.

Please note that the input (grader’s test cases) to the program should be as per the given input specification and the output of the program should be exactly in the format given in the output specification.



If your program has failed the test cases then you can modify your code and submit to grader again. You can do it multiple times till you there is time left.

8. Once you have completed the code for all the problems listed in the exam or if you want to exit the test then you can do so by clicking on the “Close Test” button. Please note that once closed, the test cannot be attempted again.
