

परीक्षक – यूज़र मैनुअल

Parikshak - User Manual

1. मुख पृष्ठ

Home Screen

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

Organization Registration SIGNUP

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

अपना यूज़र का नाम, पासवर्ड (जिसे बदला जा सकता है) डालकर लॉग-इन करें ।
Login with your username, password (can be modified)

2. अगला पृष्ठ : लॉग-इन करने के बाद, यह पृष्ठ दिखाई देगा ।

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

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

Welcome student

HOME EXAM ASSIGNMENT PRACTICE RESULT PROFILE

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

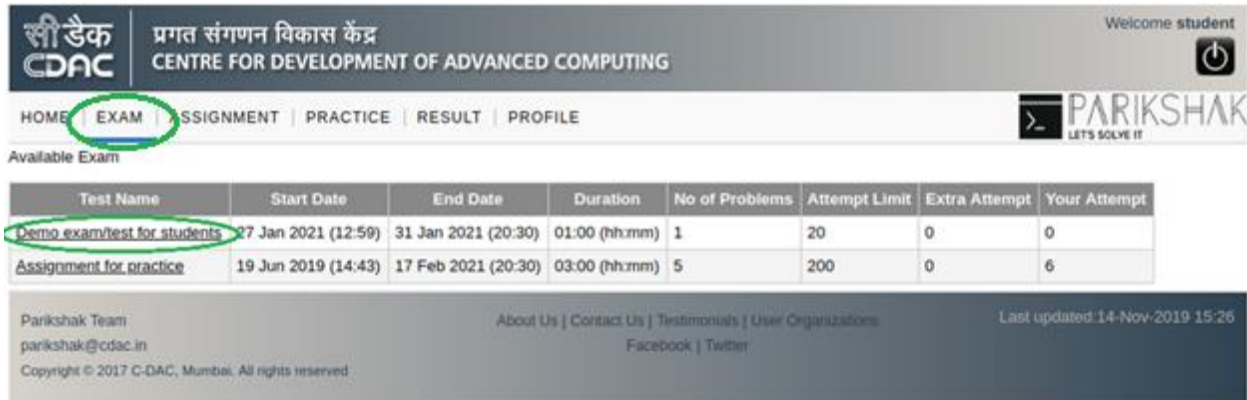
Parikshak Team
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3. परीक्षा देने के लिए, “Exam” शीर्षक पर क्लिक करें । सभी उपलब्ध परीक्षाओं की सूची सामने दिखाई देगी । उस परीक्षा पर क्लिक करें जो आप देना चाहते हैं । उदाहरण के लिए - “Demo exam/test for students” ।

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”.



Available Exam

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

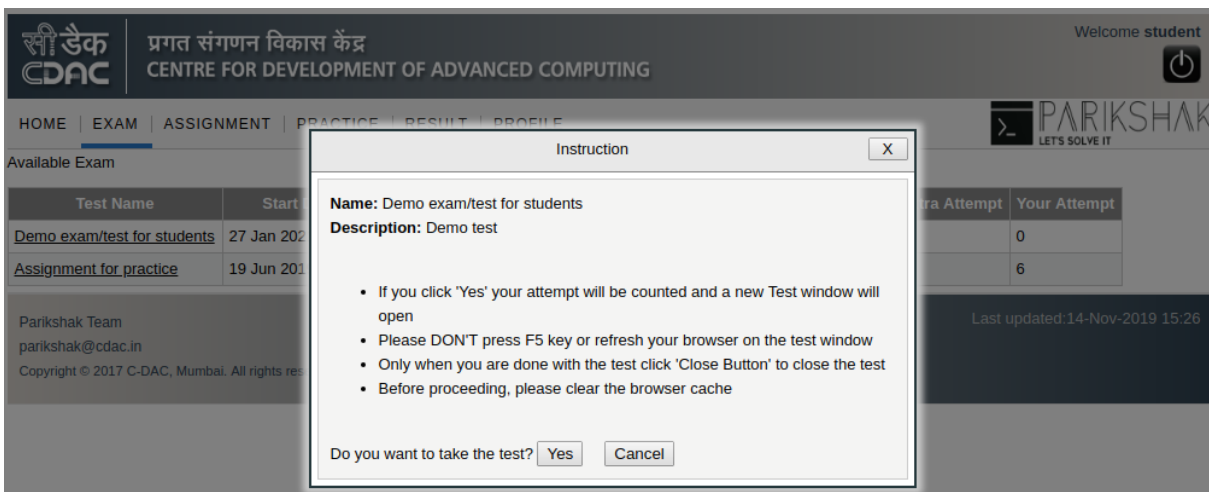
Parikshak Team
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4. जो परीक्षा आप देना चाहते हैं, उस पर क्लिक करने के बाद आपको उस परीक्षा के अनुदेशों से संबंधित संदेश दिखाई देगा । अनुदेशों को ध्यानपूर्वक पढ़ें और उसके बाद आगे बढ़ने के लिए “Yes” पर क्लिक करें और फिर आप परीक्षा दे सकते हैं ।

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.



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 DON’T 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?

5. “Yes” पर क्लिक करने के बाद, परीक्षा शुरू हो जाएगी और परीक्षा का समय भी शुरू हो जाएगा। सिस्टम में उतना ही समय दिखेगा जो परीक्षा के लिए शेष हो । सवालों को निम्नानुसार हल करें:

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:

क. दी हुई सूची (‘Select Problem’) में से सवाल चुनें ।

- a. Select the problem from the given dropdown list – ‘Select Problem’

ख. फिर यह डालें - “Filename” with extension ।

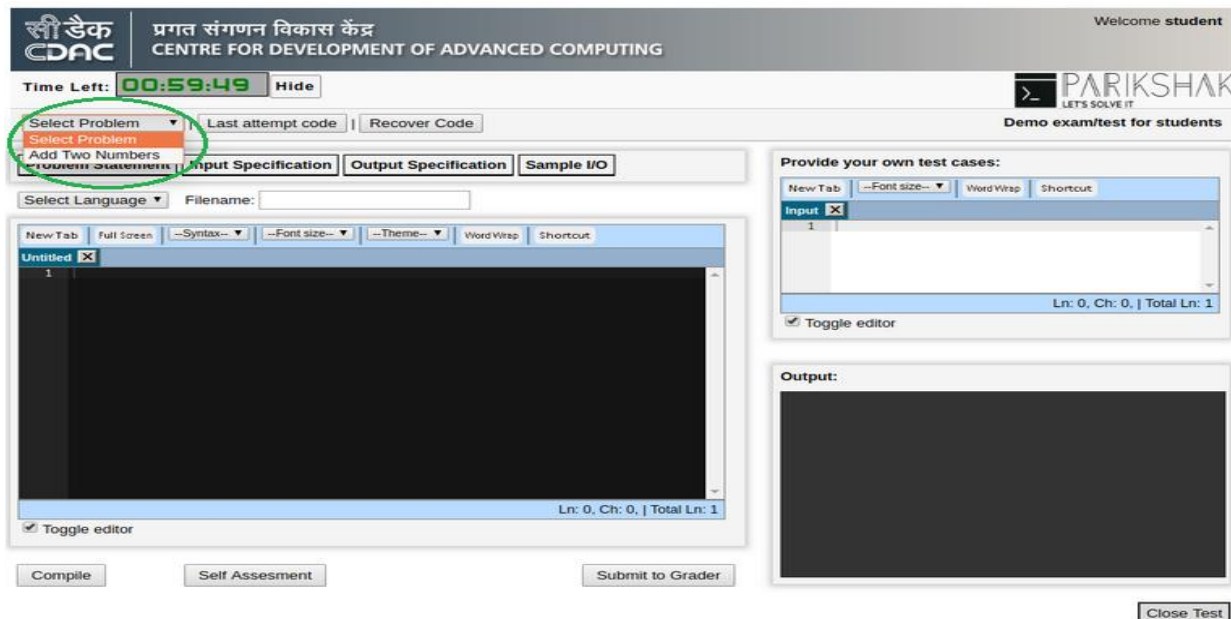
- b. Enter the “Filename” with extension

ग. दी हुई सूची (‘Select Language’) में से प्रोग्रामिंग की भाषा (“Programing Language”) चुनें ।

- c. Select the “Programing Language” from the given dropdown list – ‘Select Language’

इसके बाद यूजर problem statement, input/output specification, sample input/out देख सकता है । यूजर प्रस्तुत (submit) किया हुआ पिछला कोड [जो ग्रेडर को प्रस्तुत (submit) किया गया था] भी देख / रिकवर कर सकता है ।

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).



6. Problem Statement वाले शीर्षक के अंतर्गत, यूजर को चुने हुए सवाल के विस्तृत ब्यौरे दिखेंगे। यूजर सवालों के input/output specification (वह फॉर्मेट जिसमें प्रोग्राम input स्वीकार करे और वह फॉर्मेट जिसमें प्रोग्राम output दिखाए) और sample input/output भी देख सकेगा। भाषा (language) चुनें, फाइल का नाम लिखें और कोडिंग शुरू करें। कोड को संकलित (compile) करने के लिए इस शीर्षक पर क्लिक करें - “Compile” ।

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”.

यूजर अपना input डालकर और “Self assessment” पर क्लिक करके अपने प्रोग्राम की जाँच आदि कर सकता है ।

The user can test / check their program by giving their own input and clicking on “Self assessment”.

The screenshot shows the CDAC Parikshak demo exam interface. At the top, there is a header with the CDAC logo, the text "प्रगत संगणन विकास केंद्र CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING", and a "Welcome student" message. Below the header, there is a "Time Left: 00:53:14" timer and a "Hide" button. The main content area is divided into several sections. On the left, there is a "Problem Statement" tab selected, showing the text "You have to write a C program to add two numbers". Below this, there is a "C (4.8.3)" dropdown and a "Filename: test.c" input field. The main code editor shows the following C code:

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

On the right, there is a "Provide your own test cases:" section with an "input" field containing "1 3 6". Below this, there is an "Output:" section showing the execution results:

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

At the bottom of the interface, there are three buttons: "Compile", "Self Assessment" (highlighted with a red circle), and "Submit to Grader".

7. पूरी तरह से कोड डाल लेने और अपने test cases की जाँच कर लेने के बाद, ग्रेडर को अपना कोड प्रस्तुत (submit) करने के लिए इस शीर्षक पर क्लिक करें - “Submit to Grader” । ग्रेडर आपके कोड की जाँच करेगा, अलग-अलग test cases (ग्रेडर के test cases) की जाँच करेगा और ग्रेडर के प्रत्येक test case के लिए परिणाम “Y” या “X” के रूप में दिखेगा, जहाँ “Y” का अर्थ होगा कि आपके प्रोग्राम ने test case उत्तीर्ण कर लिया है और “X” का अर्थ होगा कि आपके प्रोग्राम ने test case उत्तीर्ण नहीं किया है । ग्रेडर के test cases यूजर को नहीं दिखेंगे।
- 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.

कृपया यह नोट करें कि प्रोग्राम का input (ग्रेडर के test cases) दिए गए input specification के अनुरूप हो, और प्रोग्राम का output भी output specification में दिए गए फॉर्मेट के अनुरूप ही हो ।

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.

The screenshot displays the CDAC Parikshak online grader interface. At the top, it says "Welcome student" and "CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING". Below this, there's a timer showing "00:49:55" and buttons for "Add Two Numbers", "Last attempt code", and "Recover Code". The main area is divided into sections: "Problem Statement", "Input Specification", "Output Specification", and "Sample I/O". The code editor shows a C program for adding two numbers. The "Submit to Grader" button is circled in orange. The output section shows the execution time, space, and a series of 'Y' characters indicating successful test cases, also circled in orange.

यदि आपके प्रोग्राम ने test cases उत्तीर्ण न किए हों, तो आप अपने कोड में बदलाव कर सकते हैं और उसे ग्रेडर को फिर से प्रस्तुत (submit) कर सकते हैं । आप ऐसा समय पूरा होने तक कितनी भी बार कर सकते हैं ।

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. एक बार जब आप परीक्षा की सूची में दिए गए सभी सवालों का कोड डाल लें या यदि आप परीक्षा को समाप्त करना चाहते हों, तो ऐसे में आप इस शीर्षक पर क्लिक करें - “Close Test”। कृपया यह नोट करें कि एक बार परीक्षा समाप्त करने के बाद, परीक्षा फिर से शुरू नहीं की जा सकेगी ।

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.
