## Parikshak - User Manual

## 1. Home Screen

रभी डेक प्रगत संगणन विकास केंद्र Centre for development of A	ADVANCED COMPUTING
Organization Registration	PARIKSHAK
Login to Parikshak         Username: *         Password: *         Password: *         Evaluate this arithmetic expression and place the value below: * $9 + 0 =$	<ul> <li>arikshak is an Automated Program Grading &amp; 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.</li> <li>Salient Features:         <ul> <li>Online GUI for Administrator, Teacher and Student</li> <li>Supports six programming languages (complied, interpreted, scripting languages) &amp; assembly programming</li> <li>Supports three different problem types:                 <ul> <li>Write the program</li> <li>Fill in the missing snippet</li> <li>Debug given program</li> <li>Provides instant and intuitive feedback to students during and after the test</li> </ul> </li> </ul> </li> </ul>
Login       Forget Password ?         Image: Computer set of the s	<ul> <li>Plagiarism detection of students' submission</li> <li>Question Banking facility</li> <li>Result Analysis</li> <li>Single IDE for programming in different language</li> <li>Live monitoring of exams &amp; assignment</li> <li>Logging of all student activities including the program code in various stages</li> <li>Possible Uses:</li> <li>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.</li> <li>Target users: <ul> <li>Colleges, Schools, institutions and organizations</li> <li>Teachers, Students, Programmers</li> <li>IT Companies</li> </ul> </li> </ul>
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Login with the valid username and password provided to you.

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

सी डैक प्रगत संगणन विकास वे CAAC CENTRE FOR DEVELOP	तेन्द्र MENT OF ADVANCED COMPUTING	Welcome sebistudent
HOME   EXAM   ASSIGNMENT   PRAC	TICE   RESULT   PROFILE	PARIKSHAK
<b>P</b> to manually examine the submitted	input/output based, the faculty reserves the right code against malpractices, reported errors and hen there is adequate ground, the faculty may lenying credit.	
Parikshak Team parikshak[at]cdac[dot]in Copyright © 2017 C-DAC, Mumbai. All rights reserved	About Us   Contact Us   Testimonials   User Organizations Facebook   Twitter	Last updated:19-Jun-2022 13:58

3. Enter Exam: To appear in the exam, click the "**Exam**" tab. All available exams assigned to you will get listed here.



Click on the exam which you want to appear in. For eg. "SEBI Demo"., this contains 3 problems, and it has only 1 attempt.

 Read instructions : 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 प्रगत संगणन विकास CDAC CENTRE FOR DEVEL	न केंद्र OPMENT OF ADVANCED COMPUTING	Welcome sebistudent
Available Exam		
Test Name         Start Date           SEBI Demo         23 Aug 2022 (11:52)         24 Aug           Parikshak Team         parikshak[at]cdac[dot]in         Copyright © 2017 C-DAC, Mumbal. All rights rest	<ul> <li>Name: SEBI Demo</li> <li>Description: SEBI Demo</li> <li>If you click 'Yes' your attempt will be counted and a new Test window will open</li> <li>Please DON'T press F5 key or refresh your browser on the test window</li> <li>Only when you are done with the test click 'Close Button' to close the test</li> <li>Before proceeding, please clear the browser cache</li> </ul>	r Attempt Last updated:19-Jun-2022 13:58
	Do you want to take the test? Yes Cancel	

Once you proceed for the exam, your attempt is counted.

5. Read Problem Statement: 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.

During this time (eg: 30 min) candidates can only read the problem statements, input / output specifications and sample input/output of the selected problem.

सी डैक प्रगत संगणन विकास केंद्र CDAC CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING	Welcome sebistudent
Time Left: 00:59:49	PARIKSHAK
Select Problem	SEBI Demo
Problem Statement Input Specification Output Specification Sample I/O Image	
Reading Time	
	Close Test
Parikshak Team parikshak@cdac.in Copyright © 2013 C-DAC, Mumbai, All rights reserved	Last updated:19-Jun-2022 13:58

After the reading time is over, candidates will get the screen where they can write the solutions of the problem by following the below steps a. Select the problem from the given dropdown list - 'Select Problem'

र्शी डेक प्रगत संगणन विकास केंद्र CDAC CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING	Welcome sebistudent
Time Left: 00:54:16	PARIKSHAK
Select Problem	SEBI Demo
Assignment: 5 (Game of Life) Snake and Ladder Ification Output Specification Sample I/O	Provide your own test cases:
Assignment 9: Bracket Matching       Select Language Y       Filename:	New Tab -Font size- V Word Wrap Shortcut Input X
New Tab     Full Screen     -Syntax-V     -Font size-V     -Theme-V     Word Wrep     Shortcut       Untitled X     1     ^	
	Ln: 0, Ch: 0,   Total Ln: 1
	Output:
~	
Ln: 0, Ch: 0,   Total Ln: 1	
Compile Self Assesment Submit to Grader	

- b. Enter the "Filename" with extension
- c. Select the programming language from the given dropdown list 'Select Language'.

Candidates can view the problem statement, input/output specification, sample input/out. Users can also view/recover the last submitted code (which was submitted to the grader on an earlier attempt).

6. Problem Statement : In the problem statement tab or Image tab, the user will get the detailed statement of the selected problem.

सी डेक प्रगत संगणन विकास केंद्र Centre for development of advanced computing	Welcome sebistudent
Time Left: 00:59:07	PARKSHAK Lets solve it
Assignment: 5 (Game of Life) V   Last attempt code   Recover Code Problem Statement Input Specification Output Specification Sample I/O Image	SEBI Demo Provide your own test cases:
Game of Life The game of life is a game which is played on a field of cells. Each cell has eight n i.e. adjacent cells. Each cell in the field is either occupied by an organism or is bl. given that a cell is occupied by an organism, this organism could have eight neighbor The objective of the game is to simulate the life of the organisms present in generation after generation. The only work of the organism is to either reproduce o rules of reproduction are given as follows: 1. If an organism has 0 or 1 neighbours, it will die out of loneliness in the next g 2. If an organism has 4 or more neighbours, it will die of crowding in the next g 3. If an organism has 2 or 3 neighbours, it will prosper and survive into generation 4. If an unoccupied cell has exactly three neighbours, then an organism takes t next generation	New TabFont size V Word Wrap Shortcut Input X I Ln: 0, Ch: 0,   Total Ln: 1 Toggle editor Output:

7. 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.

● Google Chrome ▼ Aug 24 17:23	<b>⊙ → ∴</b> •(
Parikshak: Online Program Grading Tool - Go parikshak.in/onlinetestform.html?testId=1523489	ogle Chrome
सी डेक CDAC प्रगत संगणन विकास केंद्र CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING	Welcome sebistudent
Time Left: 00:58:59	PARKSHAK
Assignment: 5 (Game of Life) v   Last attempt code   Recover Code	SEBI Demo
Problem Statement         Input Specification         Output Specification         Sample I/O         Image           • The first line of input will be two integers, R and C, separated by a space, specifying the number of rows and columns that the field has. Assume that the maximum number of rows and columns will never be greater than 30.         • The next R lines of input contain C characters, consisting of '#' and '@' respectively. '#' means a blank cell, while '@' indicates an organism.           • The last line of input contains one integer N, which is the number of generations that are supposed to be simulated.	Provide your own test cases: New Tab Fort Size-V Word Wings Shortcut Input X 1 Ln: 0, Ch: 0,   Total Ln: 1 V Toggle editor
	Output:
Select Language V Filename: New Tab full Scen Syntax-V Font Size-V Mord Way Shortcut Untited X 1	

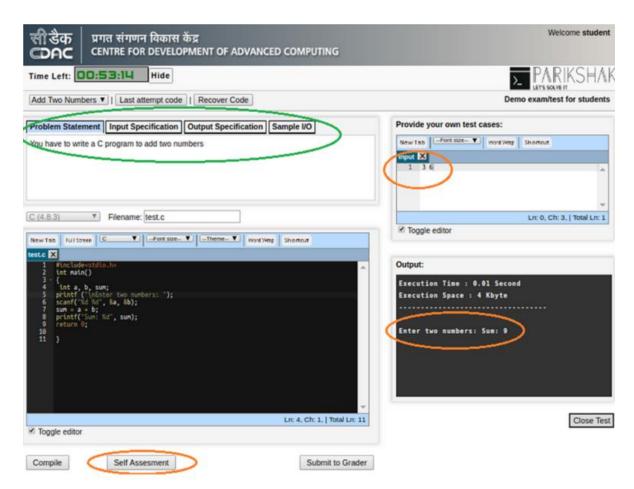
## [Output Specification]

र्शी डेक प्रगत संगणन विकास केंद्र CDAC CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING	Welcome sebistudent
Time Left: 00:58:55	PARIKSHAK lets solve it
Assignment: 5 (Game of Life) v   Last attempt code   Recover Code	SEBI Demo
Problem Statement Input Specification Output Specification Sample I/O Image	Provide your own test cases:
The output of your program should be a single integer indicating the number of living organisms at the end of simulation, i.e., after N generations.	New Tab Font size- Word Wrap Shortcut
Select Language  Filename:	

## [Sample Input/output]

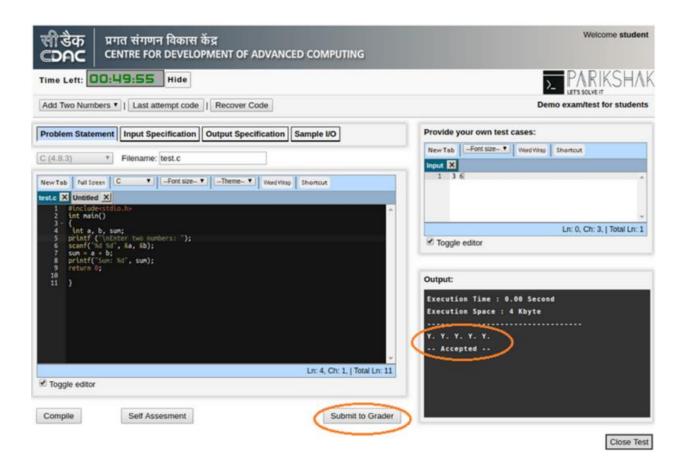
	त संगणन विकास NTRE FOR DEVELO	केंद्र PMENT OF ADVANC	ed compu	TING		Welcome sebistudent
Time Left: 00:5	58:51					PARIKSHAK
Assignment: 5 (Game of Life) v I Last attempt code I Recover Code				SEBI Demo		
Problem Statement	Input Specification	Output Specification	Sample I/O	Image		Provide your own test cases:
Input: 3 3 #@# #@@ @#@ 3 Output: 3					*	New Tab Font size- V Word Wrap Shortcut Input X 1 Ln: 0, Ch: 0,   Total Ln: 1 Toggle editor
Input: 3 3 #@# #@@ @#@ 4					•	Output:

8. 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**".



9. 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 (hidden test cases) and will show the result in the form of "Y" or "X" against each test case; where "Y" means the program has passed the test case and "X" means the program has failed for the test case.

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 it to the grader again. This step can be repeated any number of times within the time limit of the exam.

Once you have completed the code for all the problems listed in the exam or if you want to exit the test; you can do so by clicking on the "**Close Test**" button. Please note that once the exam is closed, the test cannot be attempted again if the number of attempts is exhausted.

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