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: * $9 + 0 =$ | arikshak 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 (complied, 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 |
| Login Forget Password ? Image: Computer set of the s | 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 |
| Parikshak Team | About Us Contact Us Testimonials User Organizations Last updated:19-Jun-2022 13:58 |

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 |
| P 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 | Name: SEBI Demo Description: SEBI Demo 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 | 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 | ⊙ → ∴ •(|
|--|---|
| 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 | |

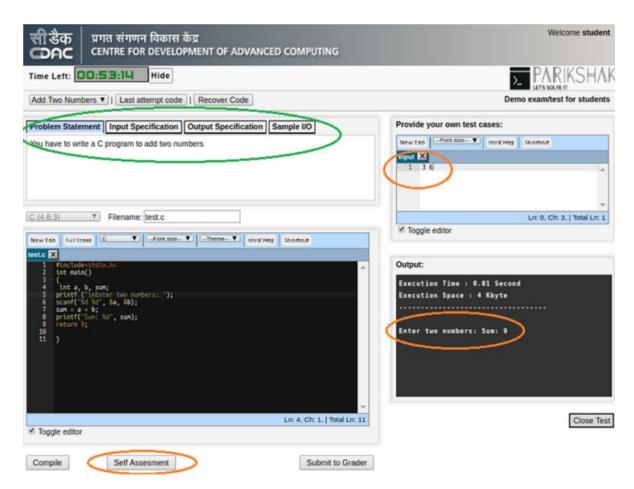
[Output Specification]

| 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]

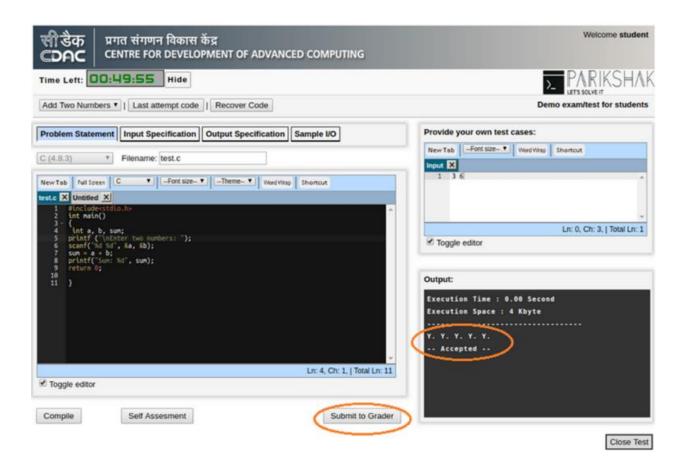
| | त संगणन विकास NTRE FOR DEVELO | केंद्र PMENT OF ADVANC | ed compu | TING | | Welcome sebistudent |
|---|----------------------------------|---------------------------|------------|-----------|---|---|
| Time Left: 00:5 | 58:51 | | | | | PARIKSHAK |
| Assignment: 5 (Game of Life) v I Last attempt 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.
