

The IOAA logo consists of a thick, dark brown vertical bar on the left. A yellow arrow points to the right from the bar, containing the text "IOAA" in dark brown. Below the bar, several thin, curved lines in dark brown and light gray extend upwards and to the right.

IOAA

MANUAL BOOK

FOR PARTICIPANT

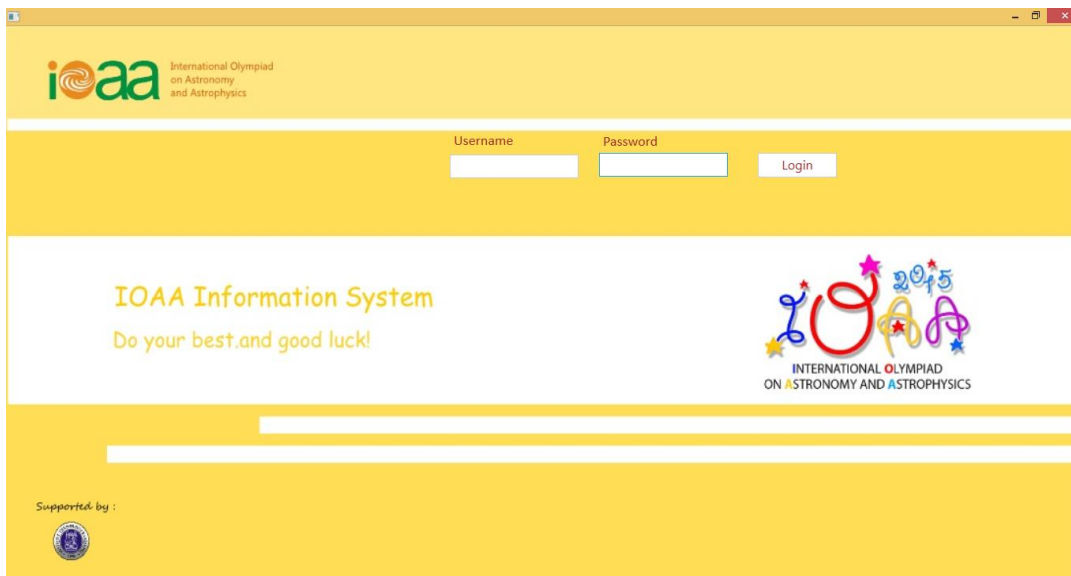
IT STAFF

IOAA INFORMATION SYSTEM

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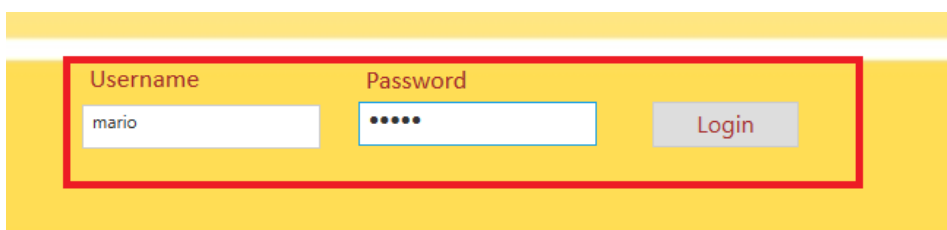
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1. LOGIN



The screenshot shows the IOAA Information System login page. At the top left is the IOAA logo with the text "International Olympiad on Astronomy and Astrophysics". Below it, there are input fields for "Username" and "Password", followed by a "Login" button. In the center, it says "IOAA Information System" and "Do your best and good luck!". To the right is a colorful logo for the "2015 INTERNATIONAL OLYMPIAD ON ASTRONOMY AND ASTROPHYSICS". At the bottom left, it says "Supported by:" followed by a small circular logo.

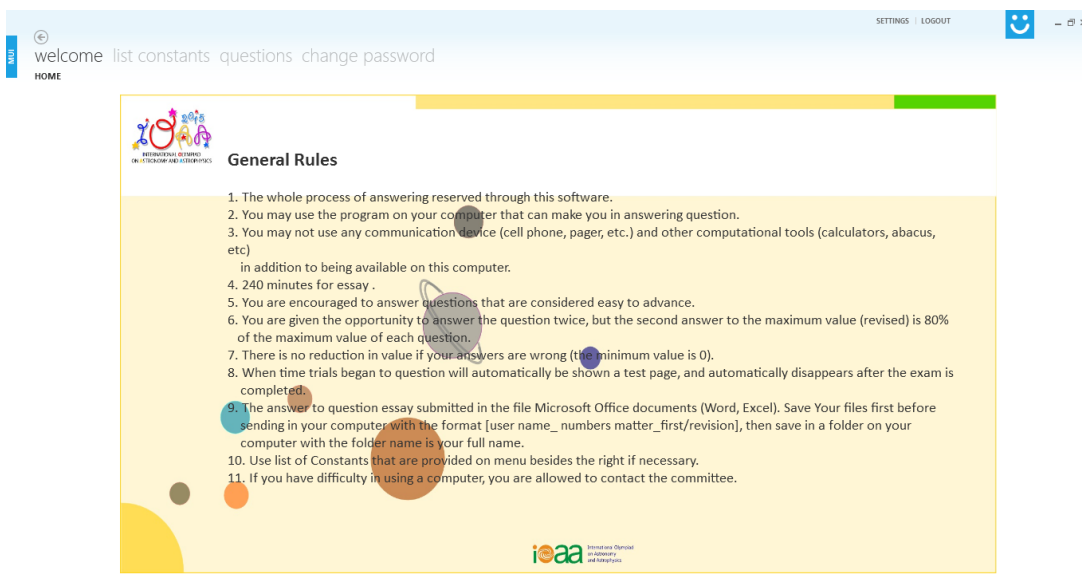
Fill your username and password which have given the committee, then click Login button.



This screenshot shows the same login page as above, but with sample data entered. The "Username" field contains "mario" and the "Password" field contains six dots. The "Login" button is highlighted with a red border.

2. GENERAL RULE

If the login successful, General Rule page will appear. This page contains the provisions made for the team leader like the picture below:



The screenshot shows the "General Rules" page of the IOAA Information System. The page has a light blue header with a navigation bar containing "welcome", "list constants", "questions", and "change password". The main content area is titled "General Rules" and contains a list of 11 rules. The rules are numbered 1 through 11. The page also features the IOAA logo and a small circular logo at the bottom right.

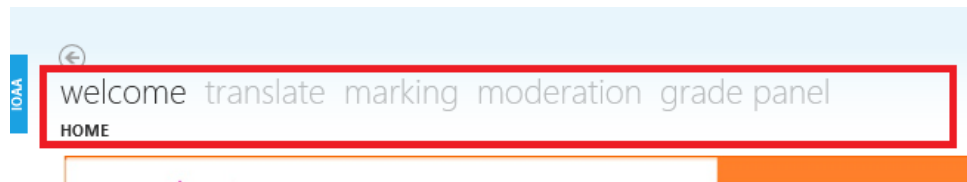
General Rules

1. The whole process of answering reserved through this software.
2. You may use the program on your computer that can make you in answering question.
3. You may not use any communication device (cell phone, pager, etc.) and other computational tools (calculators, abacus, etc) in addition to being available on this computer.
4. 240 minutes for essay .
5. You are encouraged to answer questions that are considered easy to advance.
6. You are given the opportunity to answer the question twice, but the second answer to the maximum value (revised) is 80% of the maximum value of each question.
7. There is no reduction in value if your answers are wrong (the minimum value is 0).
8. When time trials began to question will automatically be shown a test page, and automatically disappears after the exam is completed.
9. The answer to question essay submitted in the file Microsoft Office documents (Word, Excel). Save Your files first before sending in your computer with the format [user name_ numbers matter_first/revision], then save in a folder on your computer with the folder name is your full name.
10. Use list of Constants that are provided on menu besides the right if necessary.
11. If you have difficulty in using a computer, you are allowed to contact the committee.

Please read them carefully.

3. MENUS

If you see to the top left corner, you will find some menus. See the picture below:

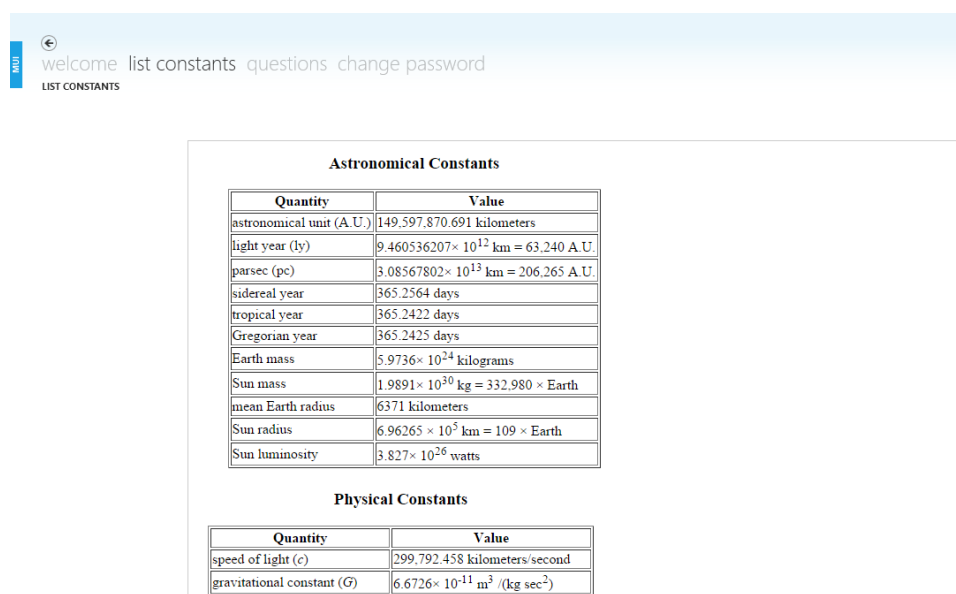


We will explain the function of each menus for you:

3.1 List Constants



This page contains the reference of constants.

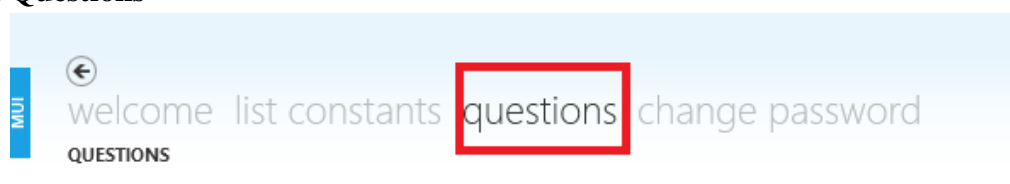


The screenshot shows the 'LIST CONSTANTS' page. The header includes a navigation bar with 'welcome', 'list constants', 'questions', and 'change password'. Below the header, the page is titled 'LIST CONSTANTS'. The content is divided into two sections: 'Astronomical Constants' and 'Physical Constants'. Each section contains a table with two columns: 'Quantity' and 'Value'.

Quantity	Value
astronomical unit (A.U.)	149.597.870.691 kilometers
light year (ly)	$9.460536207 \times 10^{12}$ km = 63.240 A.U.
parsec (pc)	$3.08567802 \times 10^{13}$ km = 206.265 A.U.
sidereal year	365.2564 days
tropical year	365.2422 days
Gregorian year	365.2425 days
Earth mass	5.9736×10^{24} kilograms
Sun mass	1.9891×10^{30} kg = 332.980 × Earth
mean Earth radius	6371 kilometers
Sun radius	6.96265×10^5 km = 109 × Earth
Sun luminosity	3.827×10^{26} watts

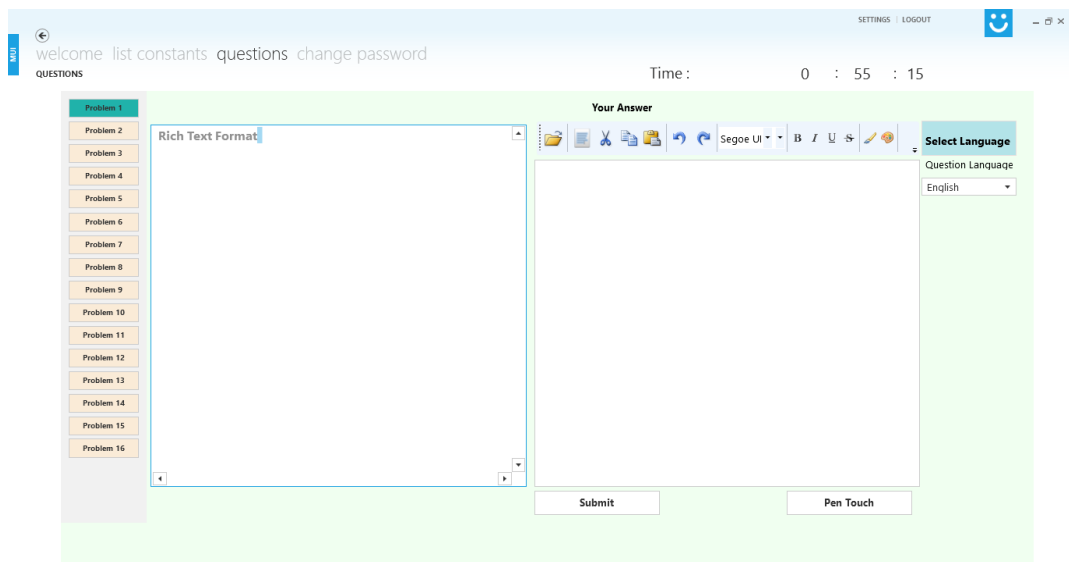
Quantity	Value
speed of light (c)	299.792.458 kilometers/second
gravitational constant (G)	6.6726×10^{-11} m ³ /(kg sec ²)

3.2 Questions

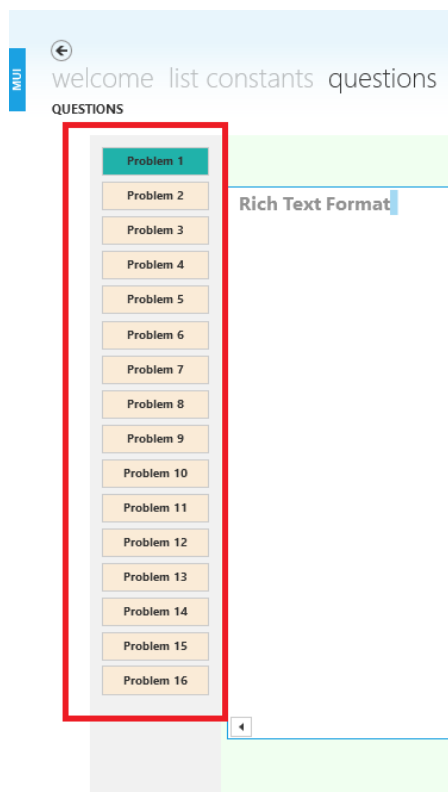


This page is provided for you to answer the questions.

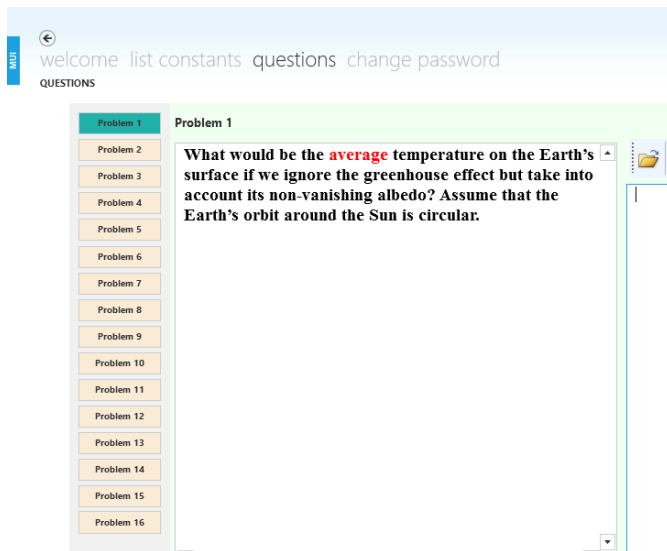
Page to answer the questions, see the picture below:



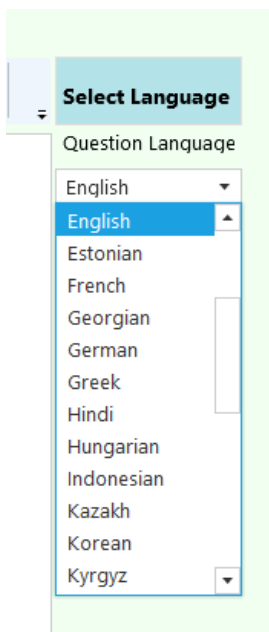
Questions list:



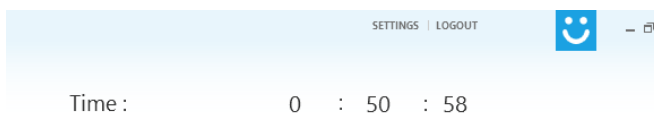
To open the question, just click in the list:



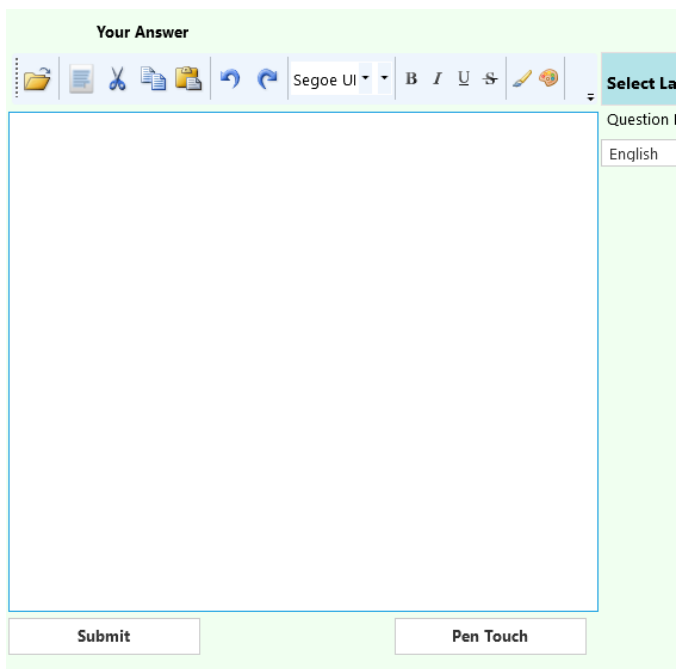
If you want to choose a language appropriate to the country of origin choose "SelectLanguage". See the picture below:



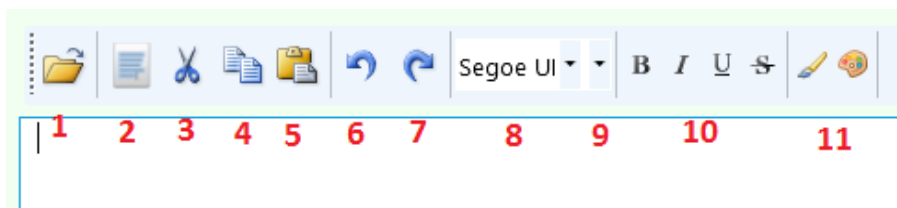
You can see the time of the Olympiad in the right corner, see the picture below:



In the next of question panel, there is answer panel. See the picture below:



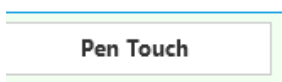
There are several tool that will allow you to work on the problems:



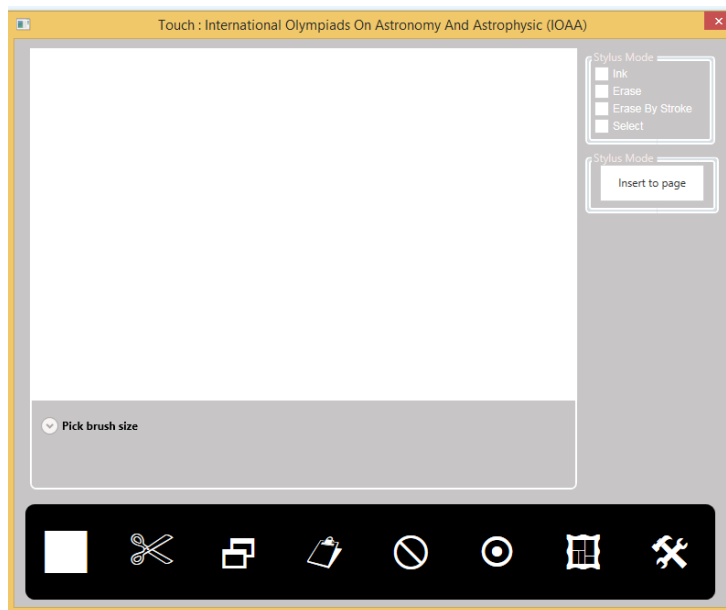
Information:

1. Insert picture.
2. Select all the text.
3. Cut the text that has been drag.
4. Copy the text that has been drag.
5. Paste.
6. Undo.
7. Redo.
8. Font option.
9. Size font option.
10. Style font option.
11. Option to respond with a pen or handwriting.

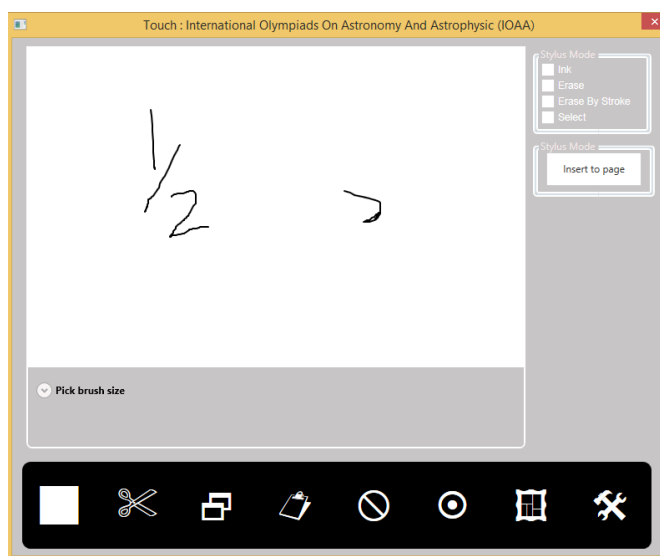
If you want to write a formula, you can use the Pen Touch to write your formula.



Pen Touch display:



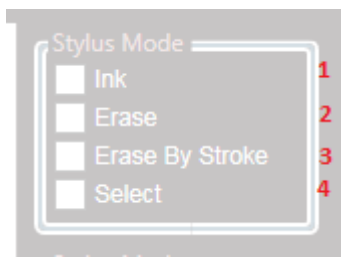
Use your mouse to drawing formula, like this picture below:



You can adjust the line from thin to thick, see the image below:

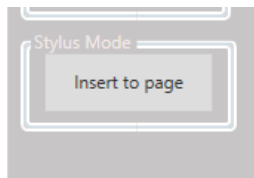


There are also has supported features:

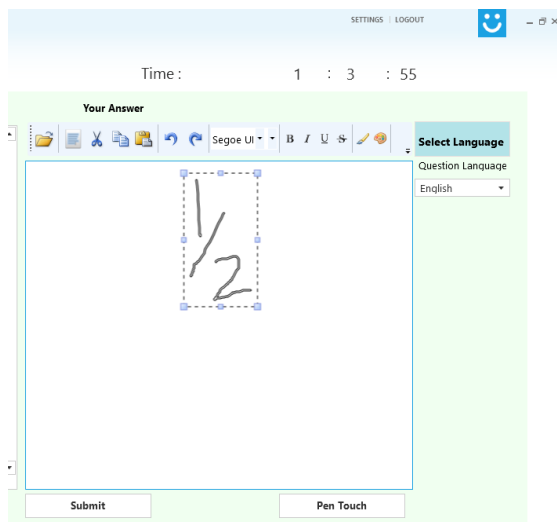


1. Ink : Tool for Pen Touch.
2. Erase : To delete.
3. Erase By Stroke : To delete the stroke
4. Select : To select

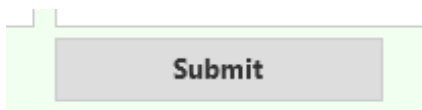
If you have done with your formula, click Insert button.



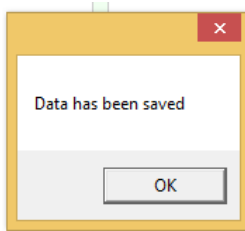
Now your image has been appeared in the answer panel, see the image below for the example:



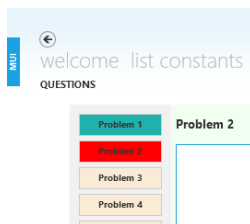
If you are already convinced with your answer, just click the Submit button.



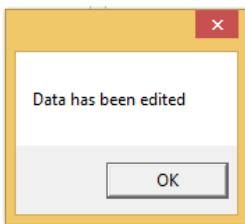
The information that your answer has been saved:



If you want to rewrite your question, do the same thing from the start and click Submit button once again.

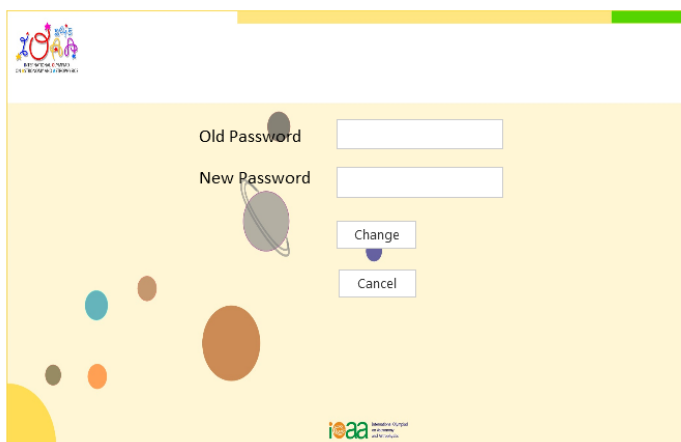


Look at the picture above, if you already input your first answer, the color of list will be blue. Then if you already input your second answer, the color of list will be red. You can only answer the question twice, then you can't edit your answer anymore. Here the message:



3.3 Change Password

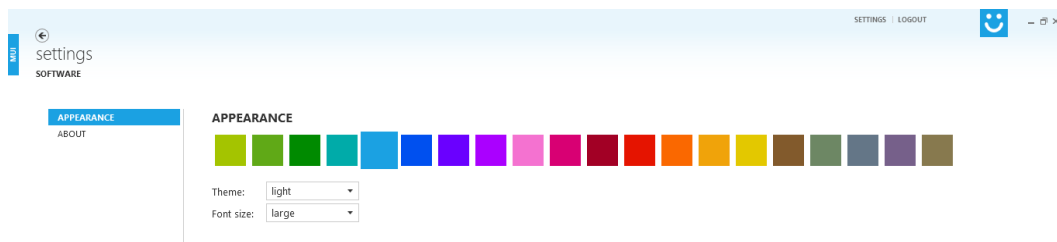
If you want to change your password, you can click this menu. Input your old password, then input your new password in the blank space.



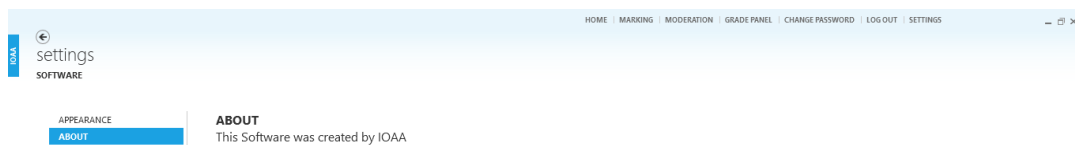
4. MENUS IN THE TOP RIGHT CORNER

4.1 Setting

You can change the background color:



About the application:



4.2 Logout

Before close the application, you better to log out first. Click “Yes” button if you sure to log out.

