Project Name: Online Judge

Course Title: Software Development Project-||

Course Code : ICT-3110

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Developed By:

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Introduction:

An online judge is an online system to test programs in programming contests. They are also used to practice for contests.

The system can compile and execute code, and test code with pre-constructed data. Submitted code may be run with restrictions, including time limit, memory limit, security restriction and so on. The output of the code will be captured by the system, and compared with standard output. The system will then return the result.

When mistakes are found in a standard output, the submission will be unsuccessful. User must correct any errors in the code, and resubmitted for re-judgment.

Objective:

The aim of competitive programming is to write source code of computer programs which are able to solve given problems. A vast majority of problems appearing in programming contests are mathematical or logical in nature. Every solution submitted by a contestant is run on the judge against a set of (usually secret) test cases. Normally, contest problems have an all-or-none marking system, meaning that a solution is "Accepted" only if it produces satisfactory results on all test cases run by the judge, and rejected otherwise.

Description:

When a user browses into this site, s/he will see following page like Fig 1.

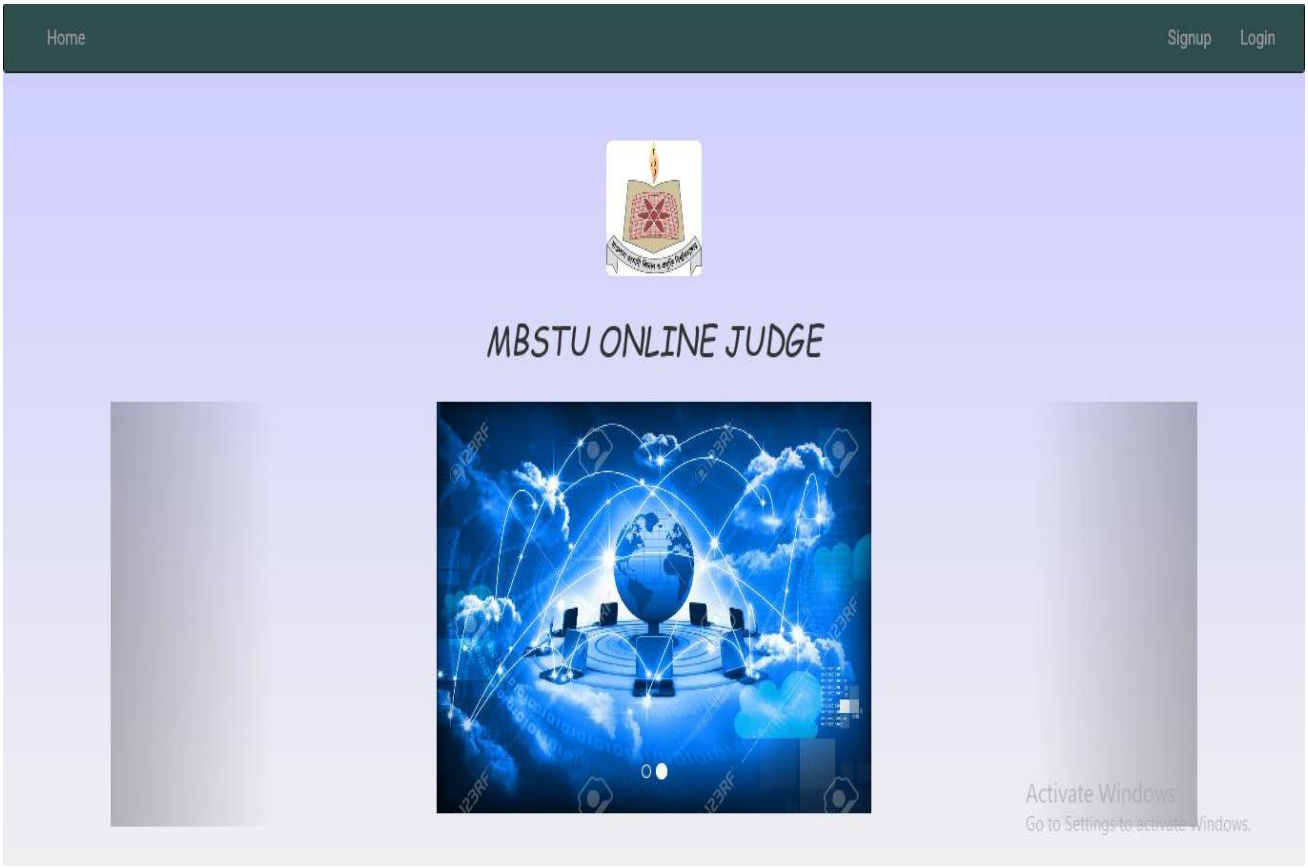


Fig 1. Home page of ‘MBSTU Online judge’

When a user clicks on signup page on the navigation bar. S/he will see page like Fig. 2.

Fig 2. Registration page of project

If registration is correct, then data will save in database like Fig.3 . Otherwise it will stay same page.

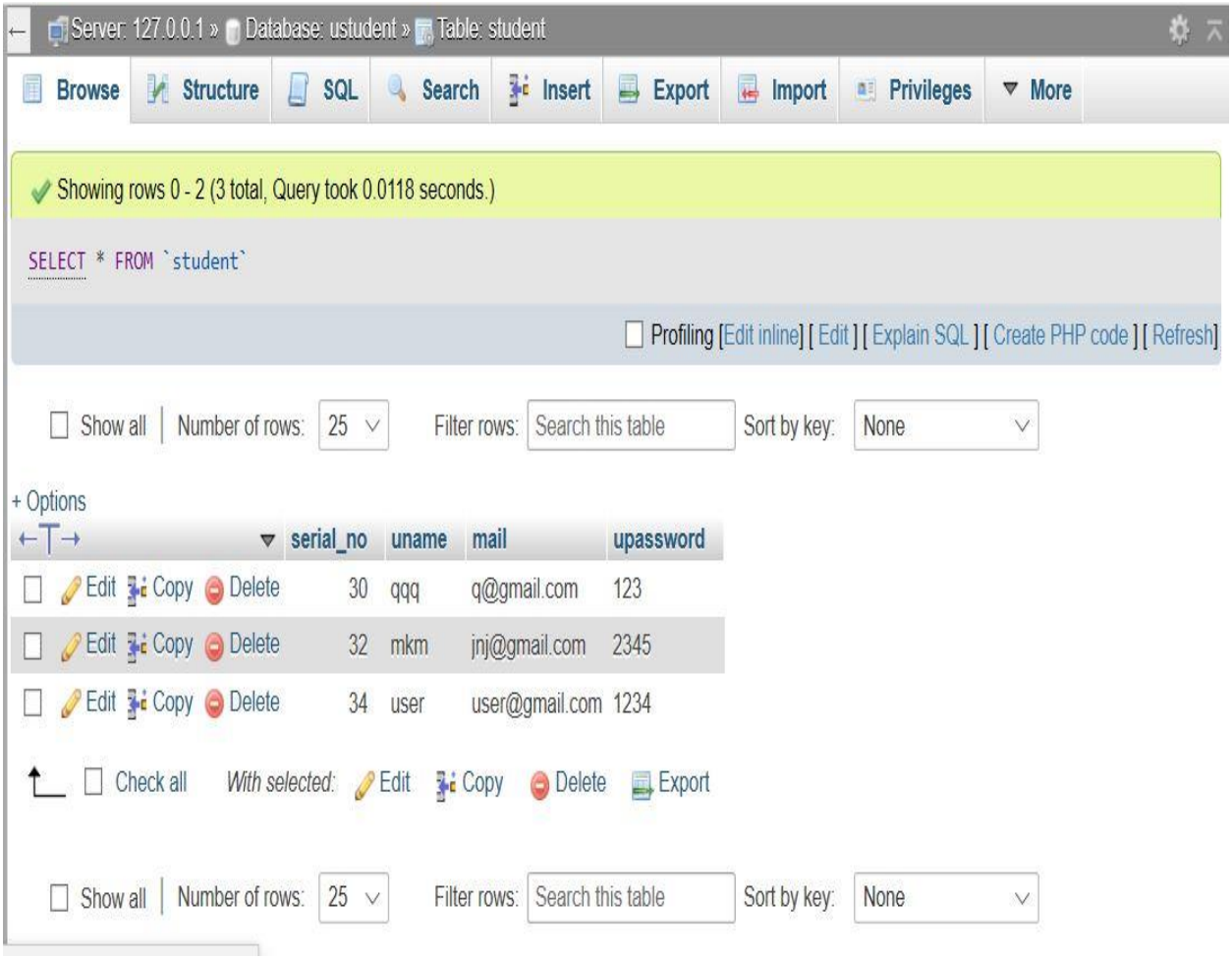


Fig 3. Database Table

After registration , welcome page will show and also show user name like Fig.4 .

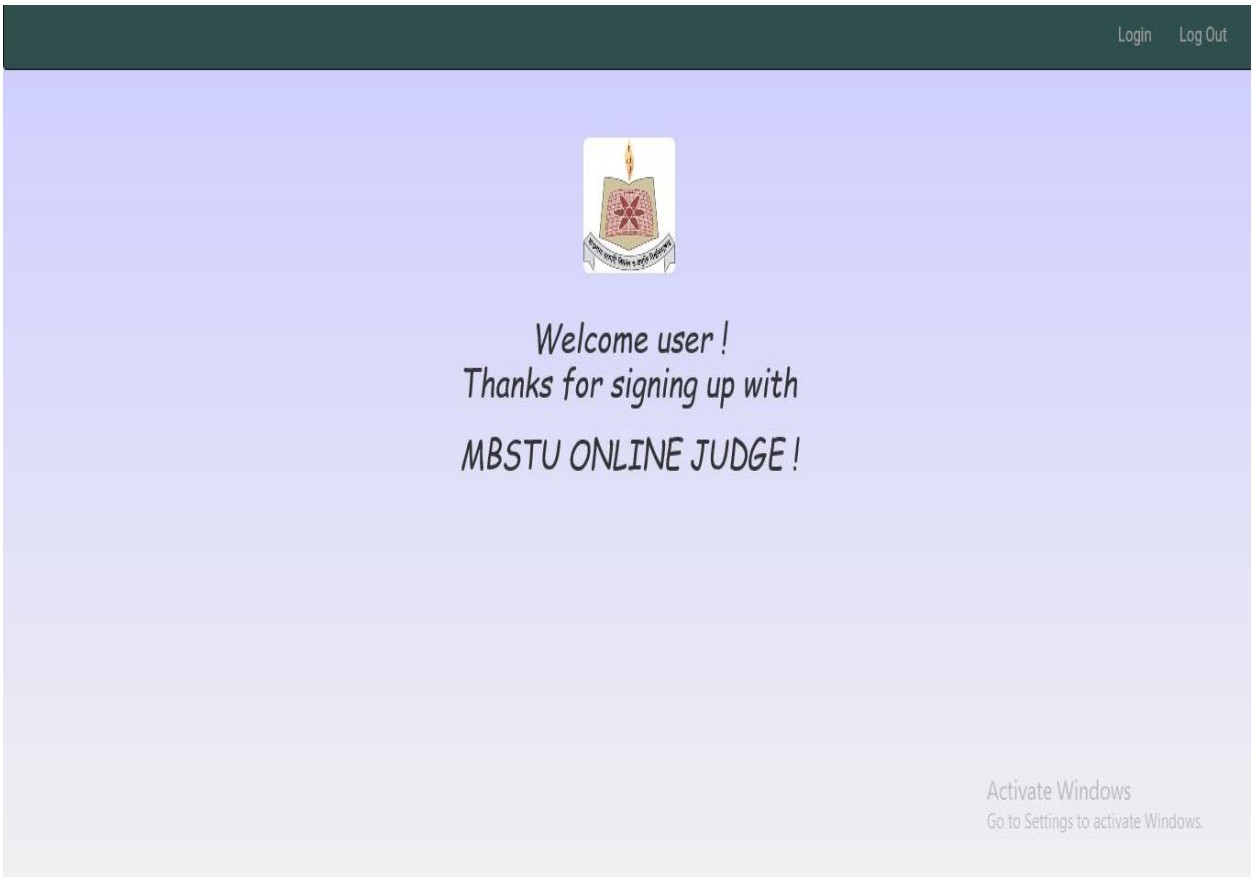


Fig 4. Welcome page

When a user clicks on the login on the navigation bar, then will show the following page like Fig.5.

Fig.5 Login page of project

After login, problem set page will show like Fig.6.

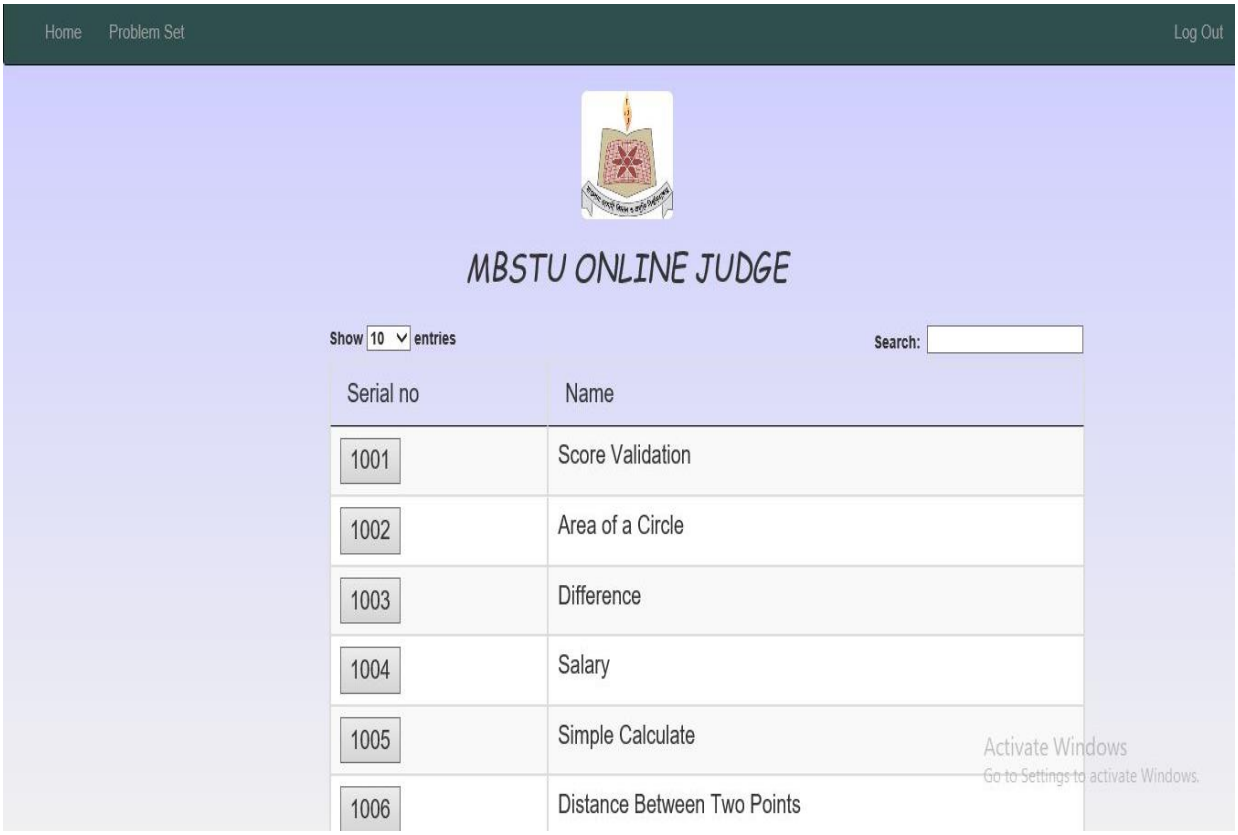


Fig 6. Problem set Page

Problem set table in database like Fig.7 :

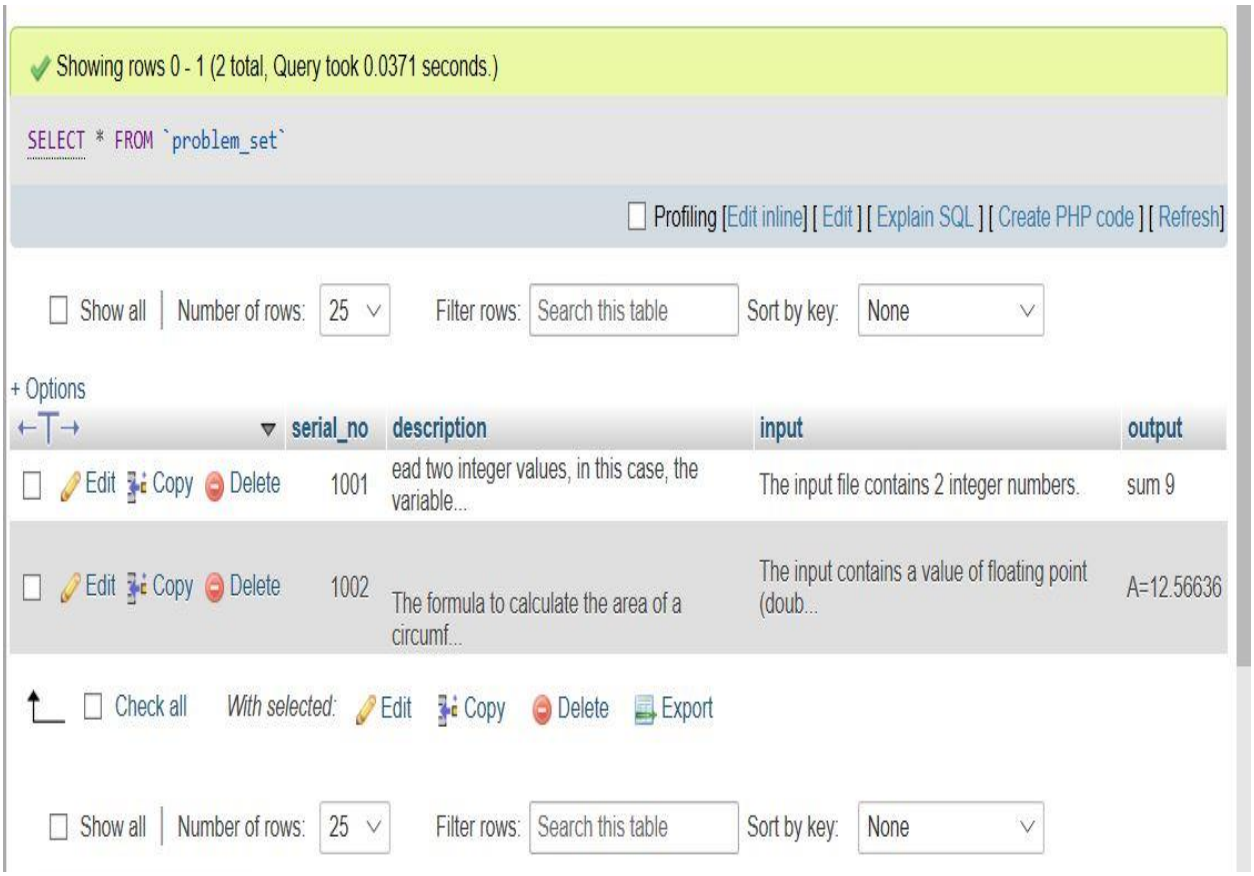


Fig 7. Problem set table in database

If a user clicks on any serial no (suppose 1001), then will show the description of the problem like Fig.8.

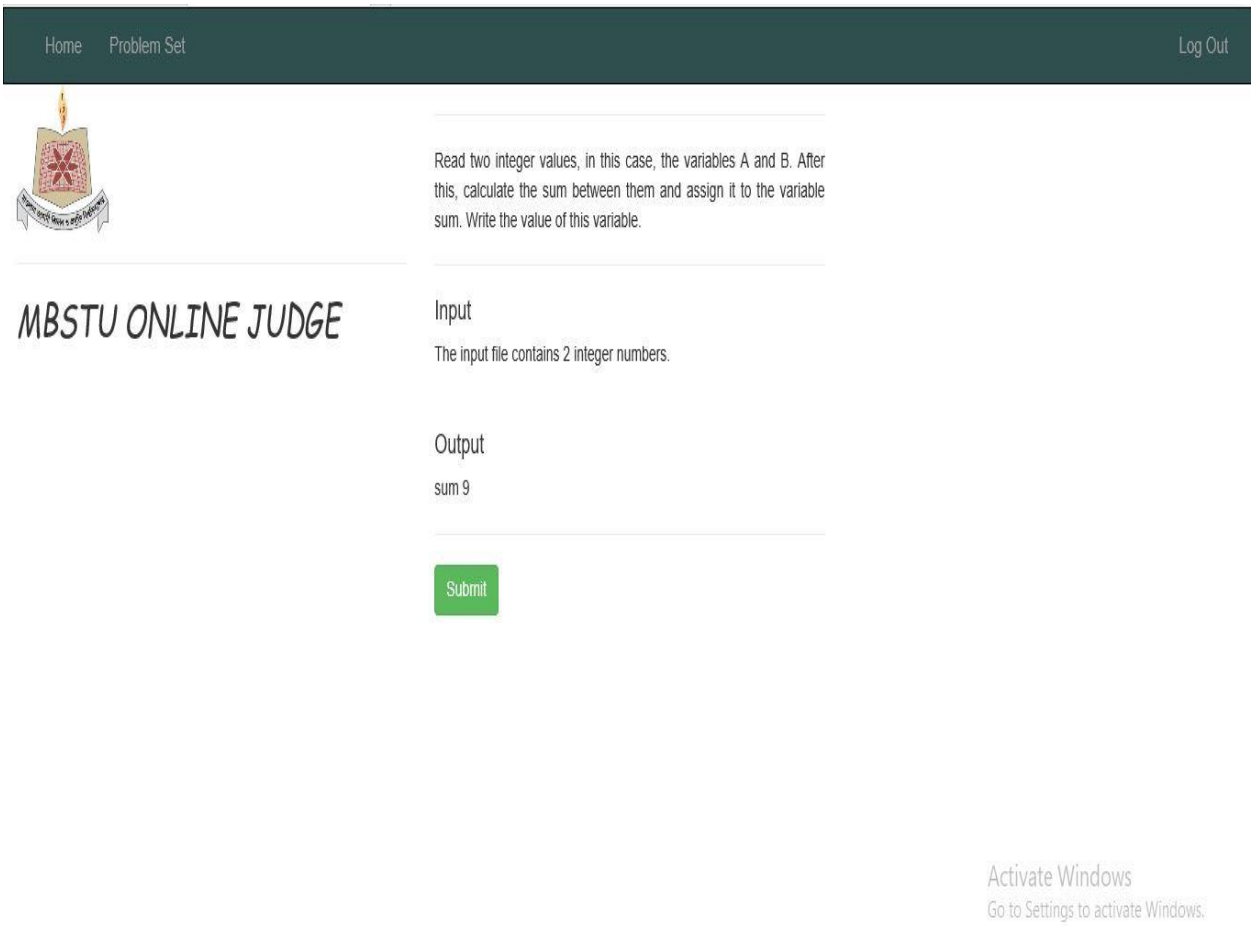


Fig 8. Description of the problem

When a user clicks on submit button , the following page will show like Fig.9.

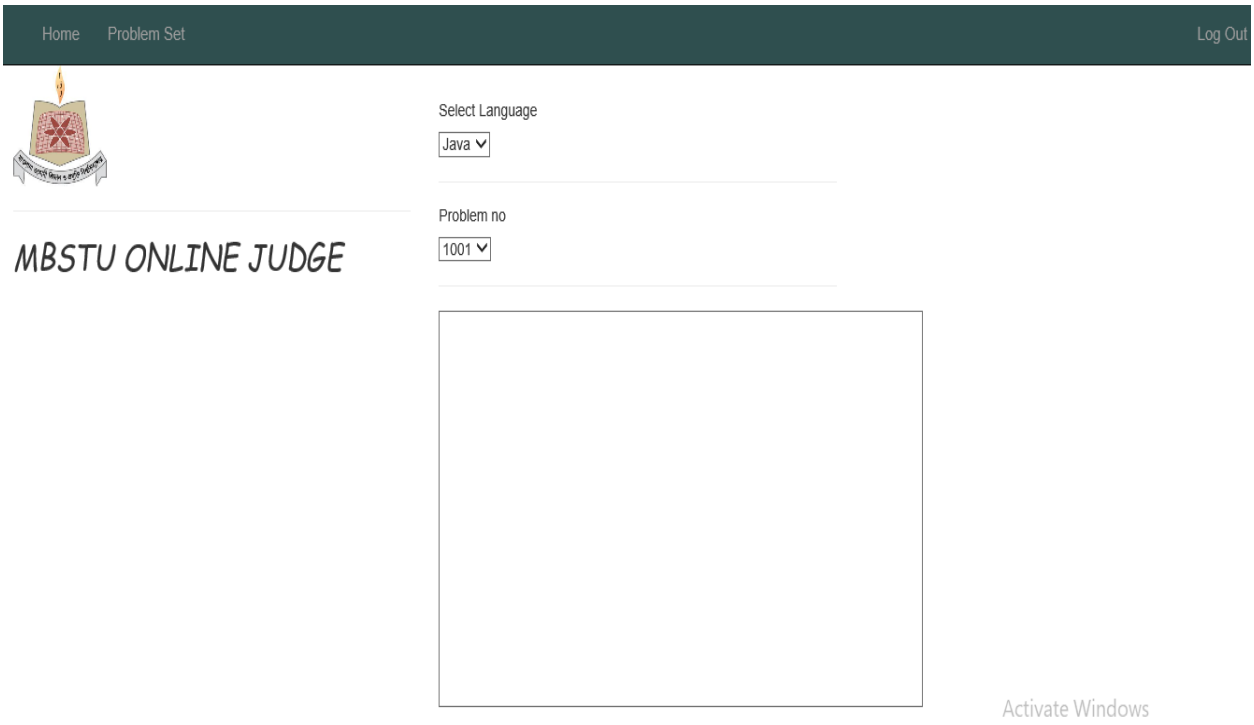
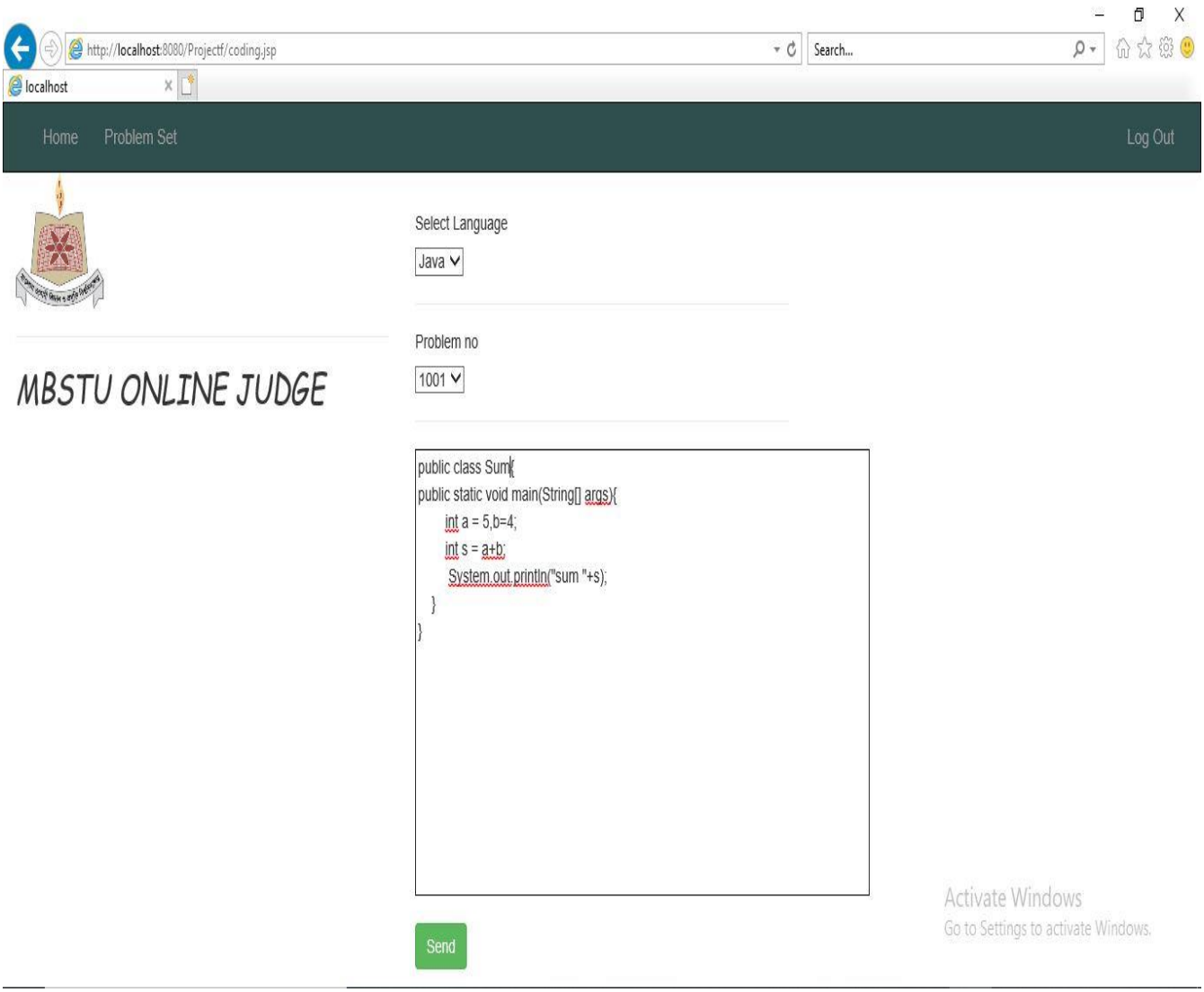


Fig 9. Submission page of code

User will select language , problem no and write code in this space.

When a user clicks on the send button , then will show the output .

Example : 01



Home Problem Set Log Out

Output

accepted

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Example : 02


Home
Problem Set
Log Out
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Select Language
Java
Problem no
1001
public class Sump{
public static void main(String[] args){
int a = 5,b=4;
int s = a+b;
System.out.println("sum "+s)
}
}
Send
Activate Windows
Go to Settings to activate Windows.

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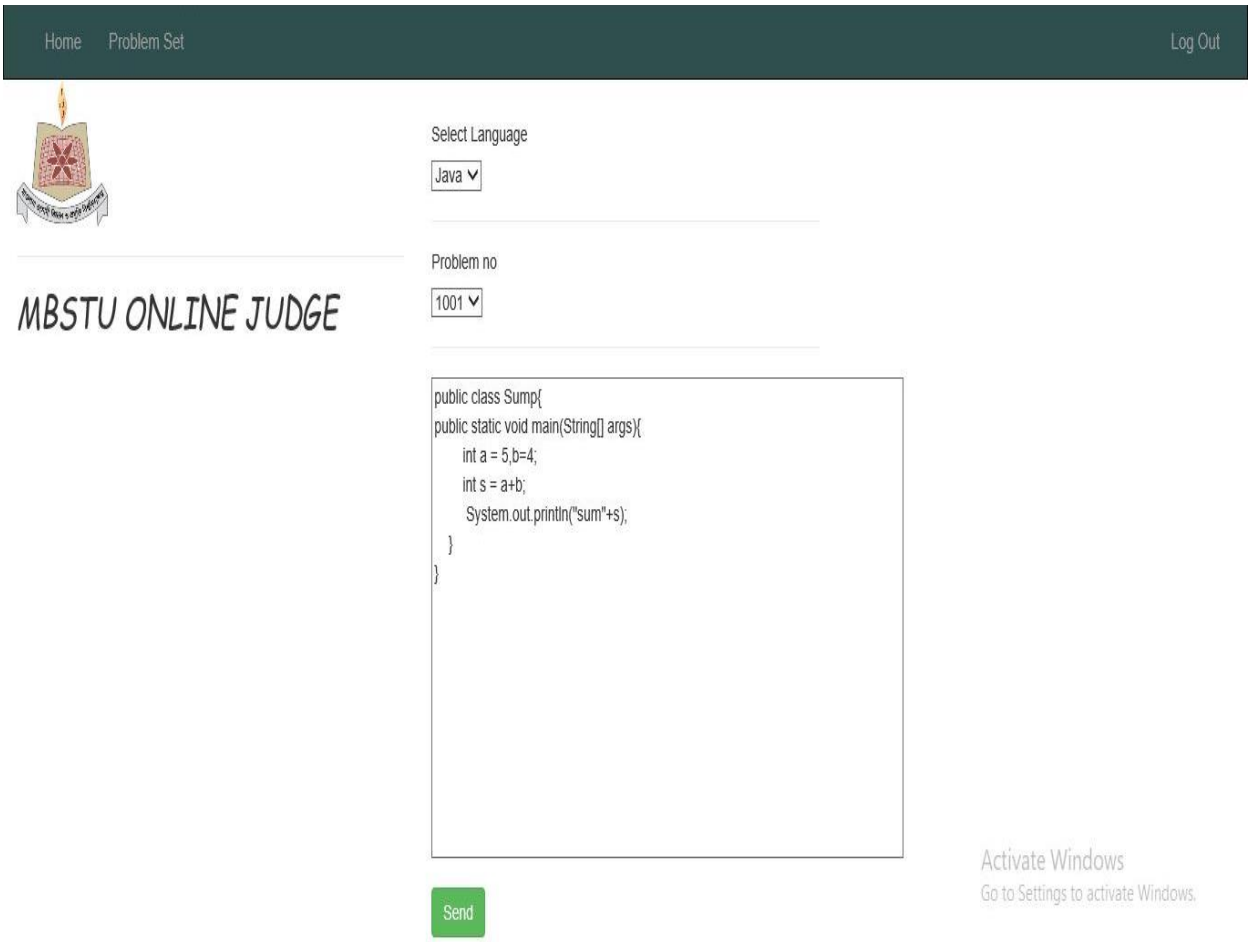
Output

Compilation error

Example : 03


Home
Problem Set
Log Out
MBSTU ONLINE JUDGE
Select Language
Java
Problem no
1001
public class Sump{
public static void main(String[] args){
int a = 5,b=4;
int s = a+b;
System.out.println("sum"+s);
}
}
Send
Activate Windows
Go to Settings to activate Windows.

Home Problem Set Log Out

Output

Presentation error

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Project Executive:

1) **Sabrin Afroz** **IT - 17007**	**Made database usable by connecting it through Hibernate.** **She used Core Java programming by** Servlet**.**
2) Sadia Afrin IT - 17002	Give the concept to build this project. Add HTML/CSS features on web page.
3) Kazi Mujahid Muntasir IT - 17024	Add Bootstrap in establish web pages. Used JSP feature on core Java programming.
4) Anika Jahin IT - 17056	She used Servlet to connect the server. Also worked with Bootstrap.