

ANNA UNIVERSITY CODING PLATFORM

AIM:

The idea is to bring in competitive coding and solving programming problems, which inculcates an interest of coding within IT and CS students and to embrace their coding talents.

FEATURE:

- Comprises of online code editor for the languages **C, C++,Java,Python**.
- Problems or questions are given by the **Code base's Admin**.
- Test cases are added along with the problem and user must pass the test cases to earn points,
- Profile system that consist of ranks, points earned and information about the user,
- **Anna University Leadership** board which can be used at times of job interviews or placements.

LANGUAGES AND TOOLS:

Client Side: Html/ Css, php, Javascript, Ajax

Server Side: php

Database: MYSQL

INSTRUCTIONS:

- Sign up

Sign up

localhost / 127.0.0.1 / account details

localhost: AU_CODING_PLATFORM/CODE_BASE/sign%20up/frontend/signup.php

Username*

aadityarjpxx2002

Try to be unique, this will be your codebase handle

Userbio

hey im aaditya

Github Link

https://github.com/Aadityaprabu002

Twitter Link

https://twitter.com/aaditya_2002

Password*

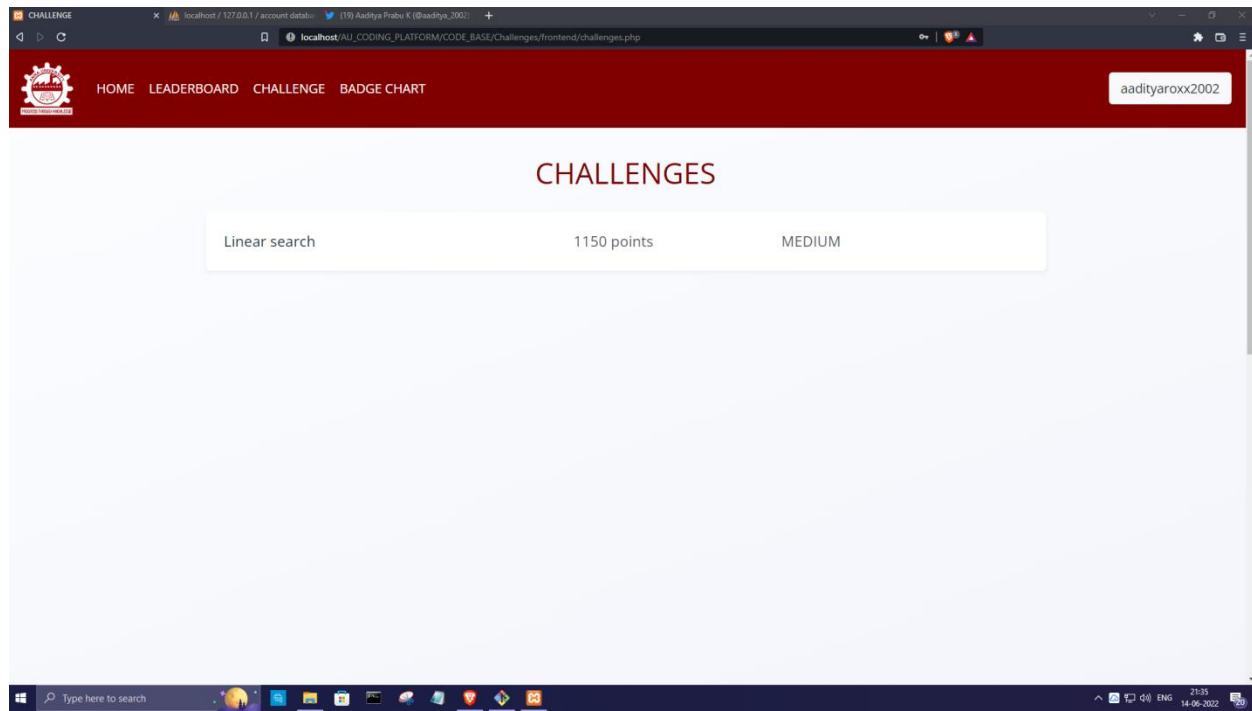
Strong

Confirm password*

Password match!

Sign up

- Redirects to Challenges, pick a challenge



- Read the challenge and try to solve it using the web editor given below

The screenshot shows a web browser window with a dark theme. The address bar shows a localhost URL. The page has a red header with navigation links: HOME, LEADERBOARD, CHALLENGE, and BADGE CHART. The user's name 'aadityarox2002' is in the top right. The main content area is titled 'LINEAR SEARCH' with a difficulty of 'MEDIUM' and 'Points: 1150'. The problem description asks to write a program to check if a number is in an array, outputting 'YES' or 'NO'. It provides input and output examples. Below the text is a diagram titled 'Linear Search' showing an array [10, 50, 30, 70, 80, 60, 20, 90, 40] with arrows indicating a search for the value '20' starting from index 0.

Question

localhost / 127.0.0.1 / account details: (19) Aaditya Prabhu K (@aaditya_2002)

localhost: AU_CODING_PLATFORM/CODE_BASE/Question%20Display%20template/frontend/question.php?Qid=93

HOME LEADERBOARD CHALLENGE BADGE CHART

aadityarox2002

LINEAR SEARCH

Difficulty type: MEDIUM
Points: 1150

Write a program to check whether a given number is found in given array
output YES if it is found.
Output NO if it is not.

inputformat:
n x
arr[1 n]

n is the size of array and x is the element to be searched for in the array arr

input:
4 5
2 3 4 5
output:
YES

Linear Search

Find '20'

0 1 2 3 4 5 6 7 8
10 50 30 70 80 60 20 90 40

- Select a language and select your editor theme

This screenshot shows the same web browser window, but now with the 'LANGUAGE' and 'THEME' dropdown menus visible. The 'LANGUAGE' dropdown is set to 'NONE' and the 'THEME' dropdown is set to 'Dark Theme'. Below these options is a large dark editor area with a tab labeled '1 Select a language'. At the bottom left of the editor area is a checkbox labeled 'Test with custom input'. A red 'Run Code' button is located at the bottom left of the page. The browser's taskbar and system clock are visible at the bottom.

Question

localhost / 127.0.0.1 / account details: (19) Aaditya Prabhu K (@aaditya_2002)

localhost: AU_CODING_PLATFORM/CODE_BASE/Question%20Display%20template/frontend/question.php?Qid=93

n is the size of array and x is the element to be searched for in the array arr

input:
4 5
2 3 4 5
output:
YES

Linear Search

Find '20'

0 1 2 3 4 5 6 7 8
10 50 30 70 80 60 20 90 40

LANGUAGE: NONE

THEME: Dark Theme

1 Select a language

Test with custom input

Run Code

- Write some code then run it
- Check the output
- In this case code ran but correct output didn't come

The screenshot shows a web browser window with a coding platform interface. At the top, there's a problem statement for 'Find '20'' with an array [10, 50, 30, 70, 80, 60, 20, 90, 40] and indices 0-8. Below the problem statement, the language is set to 'C++' and the theme is 'Dark Theme'. The code editor contains the following C++ code:

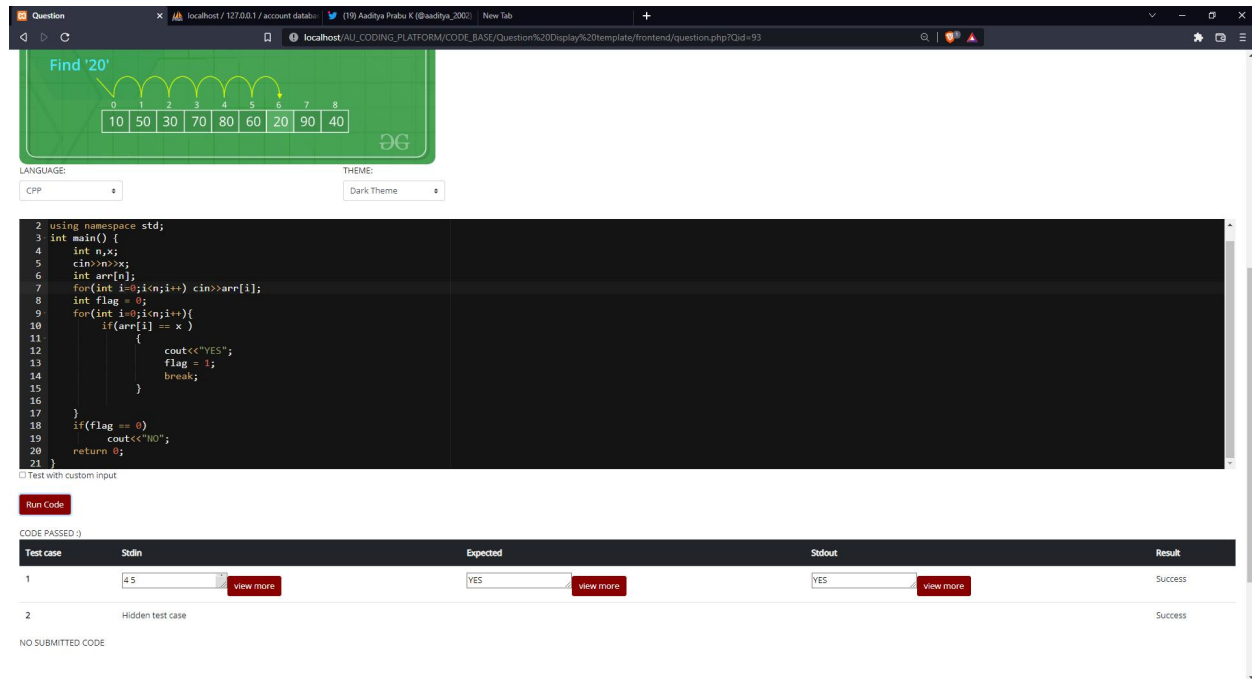
```
1 #include <iostream>
2 int main() {
3     std::cout << "Hello World!";
4     return 0;
5 }
```

Below the code editor, there's a 'Run Code' button. The output section shows a message 'CODE FAILED (BUT RAN!)'. Below this, there's a table with test cases:

Test case	Stdin	Expected	Stdout	Result
1	45 view more	YES view more	Hello World! view more	Failed
2	Hidden test case			Failed

At the bottom, it says 'NO SUBMITTED CODE'. The browser's address bar shows the URL: localhost/AU_CODING_PLATFORM/.../question.php?Qid=93. The Windows taskbar is visible at the bottom with the date 14-06-2022 and time 21:47.

- Write some more code and run
- Check the output
- In this case the output matches with the output of all the cases



Find '20'

0 1 2 3 4 5 6 7 8
10 50 30 70 80 60 20 90 40

LANGUAGE: CPP THEME: Dark Theme

```

2 using namespace std;
3 int main(){
4     int n,x;
5     cin>>n>>x;
6     int arr[n];
7     for(int i=0;i<n;i++) cin>>arr[i];
8     int flag = 0;
9     for(int i=0;i<n;i++){
10        if(arr[i] == x){
11            cout<<"YES";
12            flag = 1;
13            break;
14        }
15    }
16    if(flag == 0)
17        cout<<"NO";
18    return 0;
19 }

```

Test with custom input

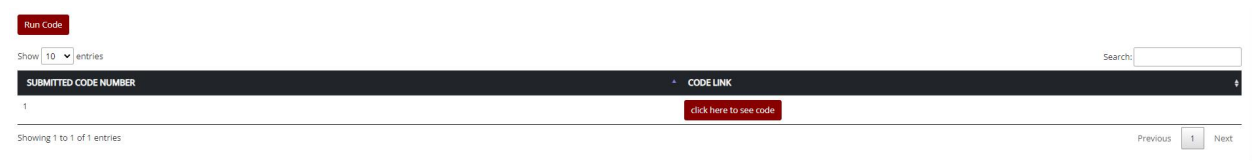
Run Code

CODE PASSED 3

Test case	Stdin	Expected	Stdout	Result
1	4 5 view more	YES view more	YES view more	Success
2	Hidden test case			Success

NO SUBMITTED CODE

- Submitted working code will be stored in database
- Press the red button to see your submissions in a new tab



Run Code

Show 10 entries Search:

SUBMITTED CODE NUMBER	CODE LINK
1	click here to see code

Showing 1 to 1 of 1 entries Previous 1 Next

```
CPP
#include <iostream>
using namespace std;
int main() {
    int n,x;
    cin>>n;
    int arr[n];
    for(int i=0;i<n;i++) cin>>arr[i];
    int flag = 0;
    for(int i=0;i<n;i++){
        if(arr[i] == x)
        {
            cout<<"YES";
            flag = 1;
            break;
        }
    }
    if(flag == 0)
        cout<<"NO";
    return 0;
}
```

- Check the leader board again, this time you scored recently the highest
- Hence you are place at the top

LEADER BOARD

localhost / 127.0.0.1 / account data: (19) Aaditya Prabu K (@aaditya_2002) | New Tab

localhost/AU_CODING_PLATFORM/CODE_BASE/leaderboard/frontend/leaderboard.php

Search:

HOME LEADERBOARD CHALLENGE BADGE CHART

aadityarox2002

LEADER BOARD

Show entries

Rank	Username	Points
1	aadityarox2002	1150
1	cyber123	1150
2	galaxy123	0

Showing 1 to 3 of 3 entries

Previous 1 Next

CONTENT

Anna university

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Lorem Ipsum has been the industry's standard dummy text

ABOUT

[About us](#)

[Sign up](#)

[Login](#)

ADDRESS AND CONTACT

College of engineering, Guindy

admin@au.com

aucares@au.com

Type here to search

21:48 14-06-2022

- Search for other users too (in this case my other account I have selected notice the bio for difference)
- We can see the badges obtained by the other user

The screenshot displays a web application interface for a coding platform. The top navigation bar is dark red with links: HOME, LEADERBOARD, CHALLENGE, and BADGE CHART. The main content area features a user profile for AADITYA PRABU. The profile includes a bio: "I love to code, i love to make games hahahahahahah", badges (2), points (1150), and social media icons (GitHub, Twitter). A large red vertical bar is positioned next to the profile. To the right, the rank is displayed as "RANK:1". Below the profile, there are three columns of text: CONTENT, ABOUT, and ADDRESS AND CONTACT. The footer shows the Windows taskbar with the search bar and system tray.

LEADER BOARD

HOME LEADERBOARD CHALLENGE BADGE CHART

AADITYA PRABU

I love to code, i love to make games hahahahahahah

Badges: 2

Points: 1150

RANK:1

CONTENT

Anna university

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

ABOUT

[About us](#)

[Sign up](#)

[Login](#)

ADDRESS AND CONTACT

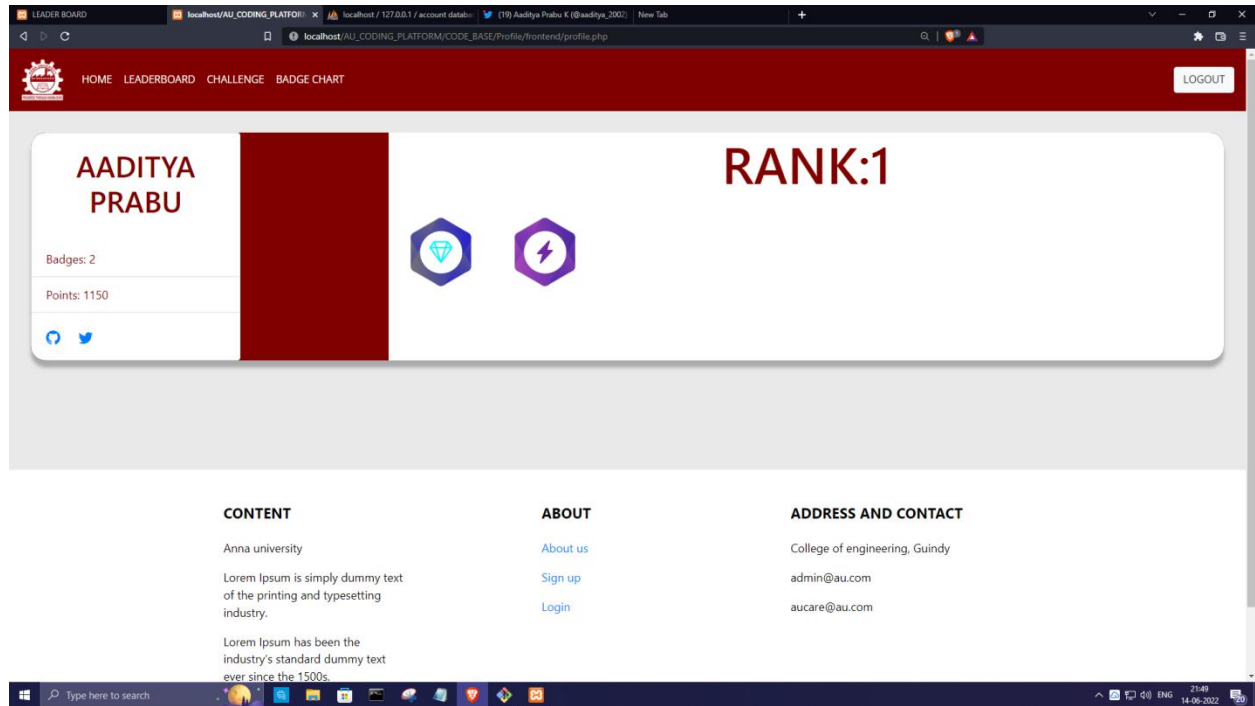
College of engineering, Guindy

admin@au.com

aucare@au.com

21:49 14-06-2022

- This is my recently created account (notice the bio)
- I can see the badges obtained by me



- Admin can add new questions
- Fill up the question form using admin gateway accessible only to the admin

QUESTION FORM

Enter the name of the question:

Enter the difficulty level:

Enter the question:
 Description #1

 Description #2

Insert pictures here:

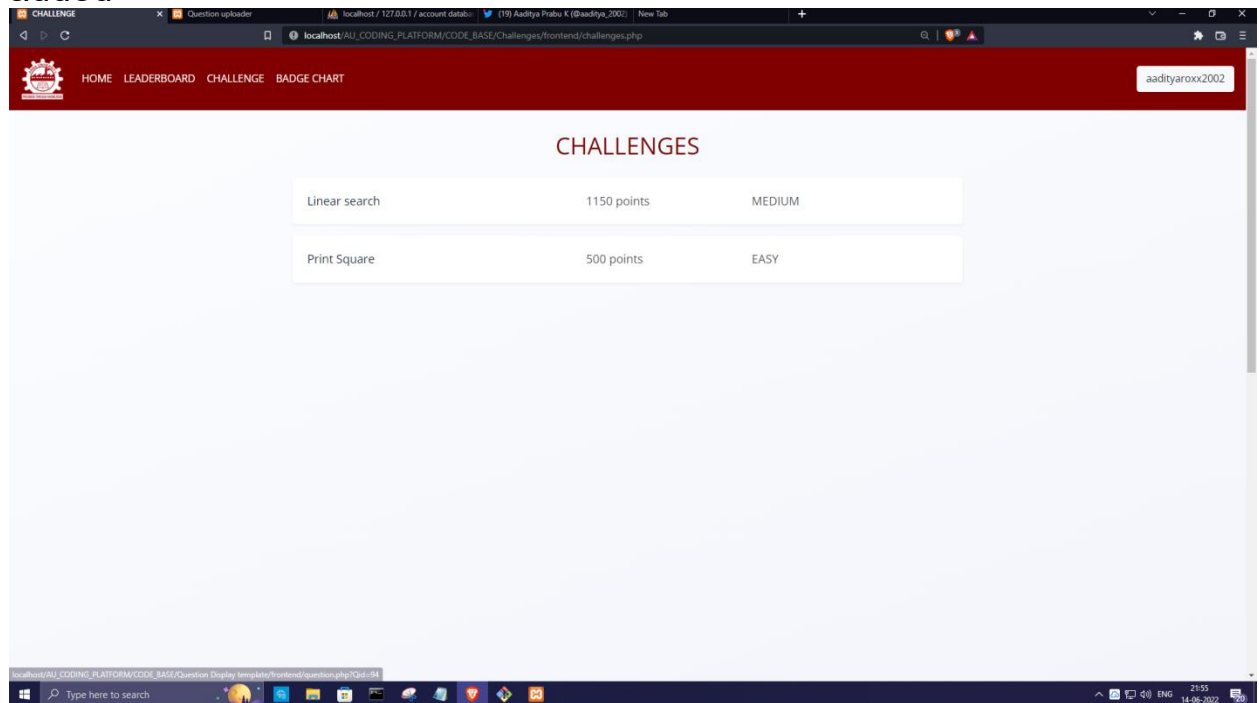
Click and press enter to select awards:

Enter testcases:
 Test case #1

☒ Sample case:
 Test case #2

☐ Sample case:

- See on the user side for the new question, yes 'Print square' question is added



Question uploader

localhost / 127.0.0.1 / account details | (19) Aaditya Prabu K (@aaditya_2002) | New Tab

localhost/AU_CODING_PLATFORM/CODE_BASE/Question%20Display%20template/frontend/question.php?Qid=94

HOME LEADERBOARD CHALLENGE BADGE CHART

aadityarox2002

PRINT SQUARE

Difficulty type: EASY
Points: 500

Write a program to print the square of input

Input:
100
output:
10000

LANGUAGE: NONE THEME: Light Theme

Select a language

☐ Test with custom input

Run Code

This PC > Local Disk (C:) > xampp > htdocs > AU_CODING_PLATFORM > Database > Questions

Name	Date modified	Type	Size
Linear search	22-10-2021 18:57	File folder	
Print Square	14-06-2022 21:55	File folder	

phpMyAdmin

Server: 127.0.0.1 Database: question database Table: question properties

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

SELECT * FROM `question properties`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

		Qid	Qname	Qlevel	Qaward	Qdescription	Qtestcase
<input type="checkbox"/>	Edit Copy Delete	93	Linear search	MEDIUM	["RDB","P1B"]	C:/xampp/htdocs/AU_CODING_PLATFORM/Database/Questi...	C:/xampp/htdocs/AU_CODING_PLATFORM/Database/Que...
<input type="checkbox"/>	Edit Copy Delete	94	Print Square	EASY	["BB++","LTB","IMB1"]	C:/xampp/htdocs/AU_CODING_PLATFORM/Database/Questi...	C:/xampp/htdocs/AU_CODING_PLATFORM/Database/Que...

☐ Check all With selected: Edit Copy Delete Export

☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

- What happens if there is an error in our code
- In that case the error is also displayed

The screenshot shows a web browser window with a code editor. The code is as follows:

```
1 #include <iostream>
2 int main() {
3     std::cout << "Hello World!|
4     return 0;
5 }
```

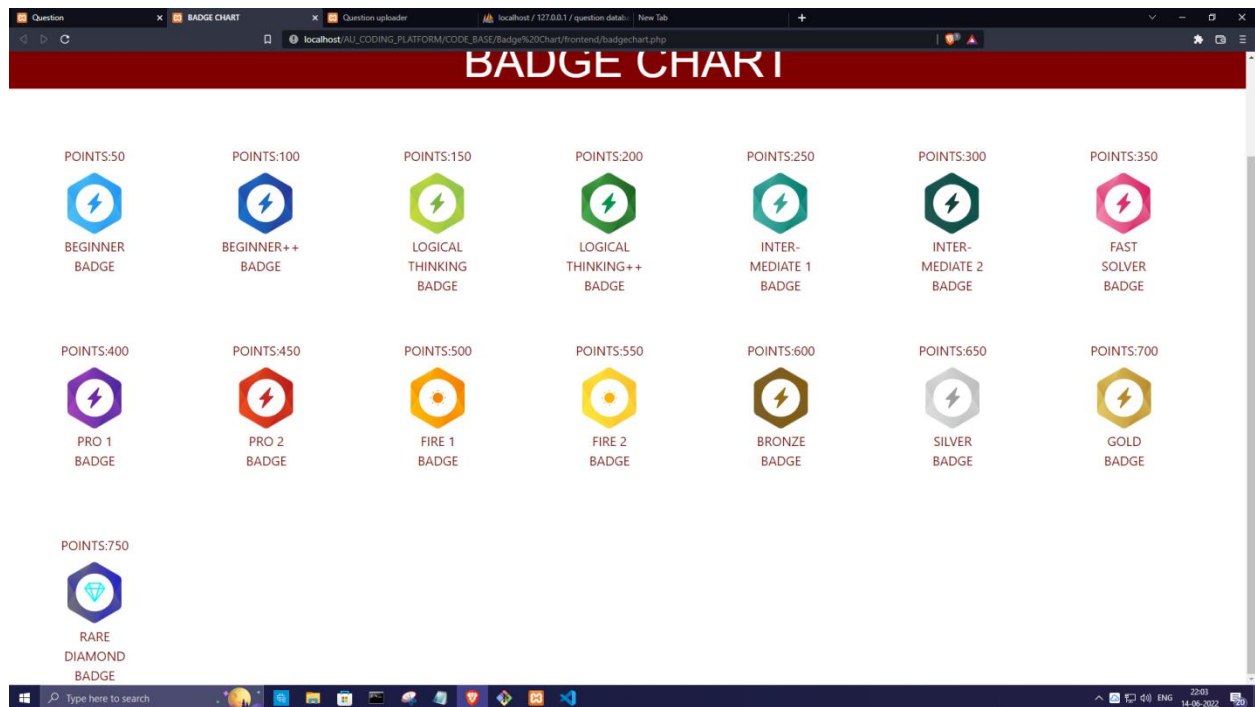
Below the code editor, there is a checkbox labeled "Test with custom input" and a red button labeled "Run Code".

Below the "Run Code" button, a message "CODE FAILED" is displayed. Below this is a table with the following data:

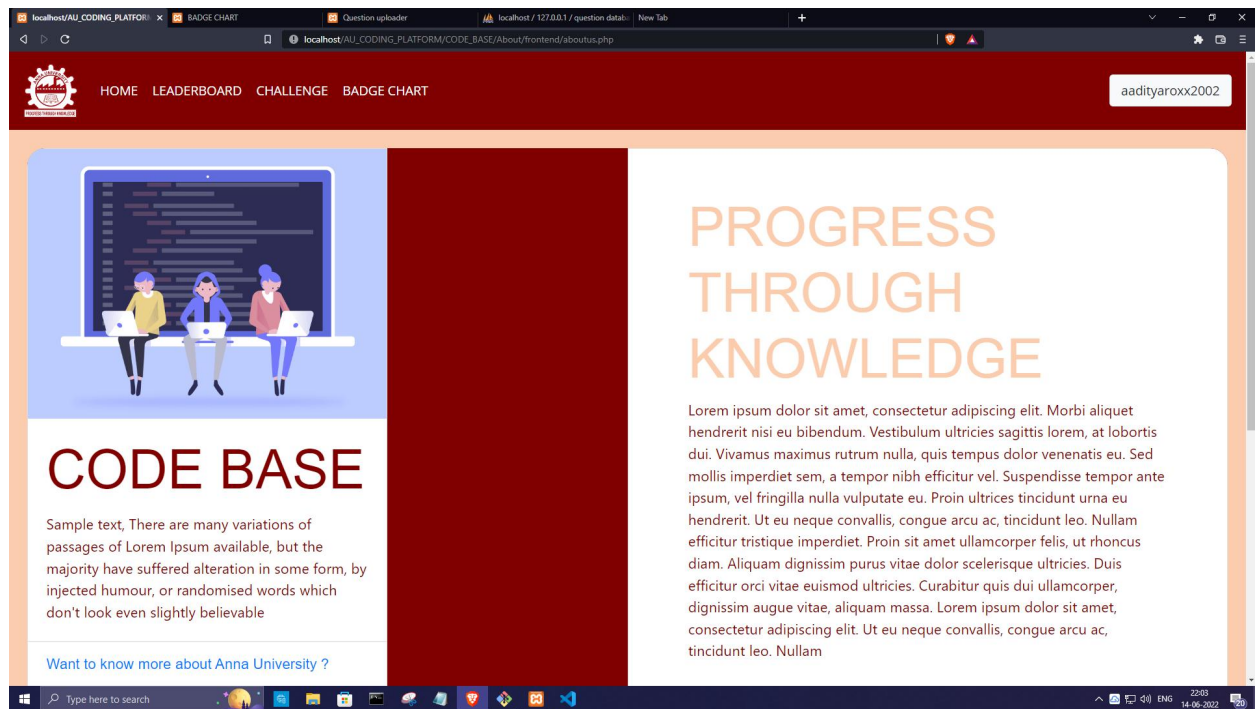
Testcase	Stderr	Result
1	main.cpp:3:18: warning: missing terminating " character std::cout << "Hello World! view more	Failure

At the bottom of the page, there is a "Show" dropdown menu set to "10" and a "Search:" input field.

- Badge chart to know how much points we get for each badge we get by solving questions



- Some additional information



- To again login

