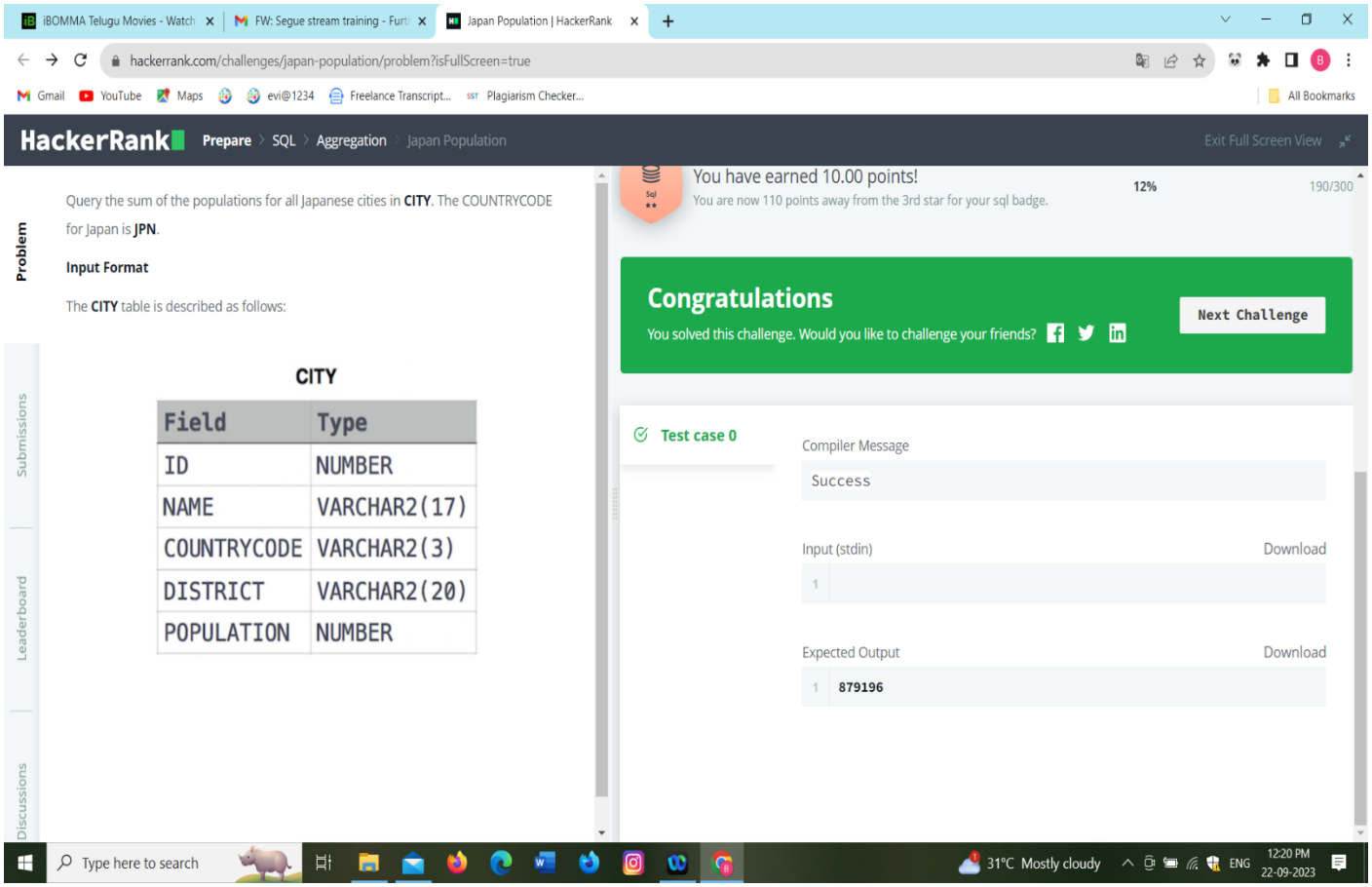
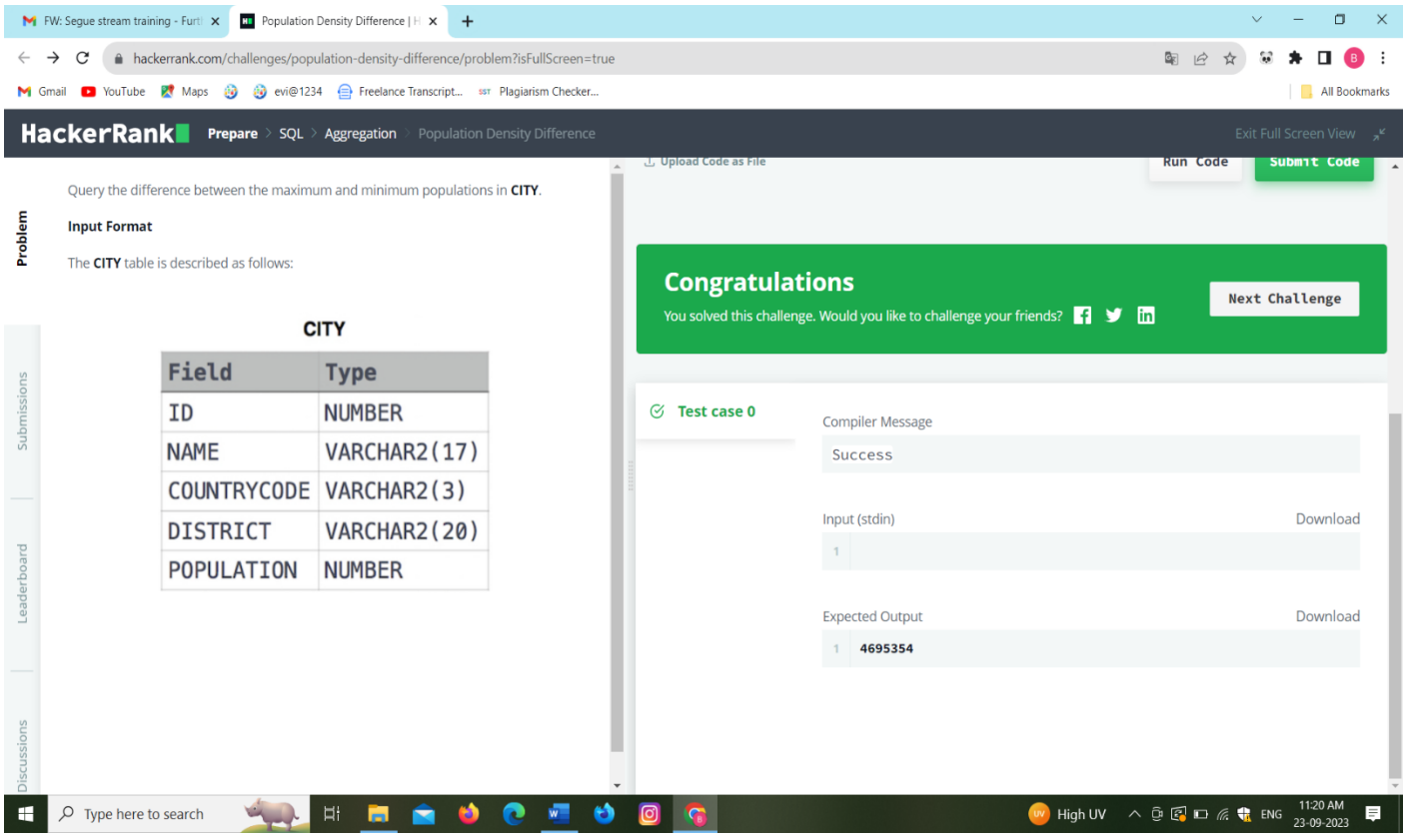
DAY-9 SQL

BALAJYOTHITHAMMINENI

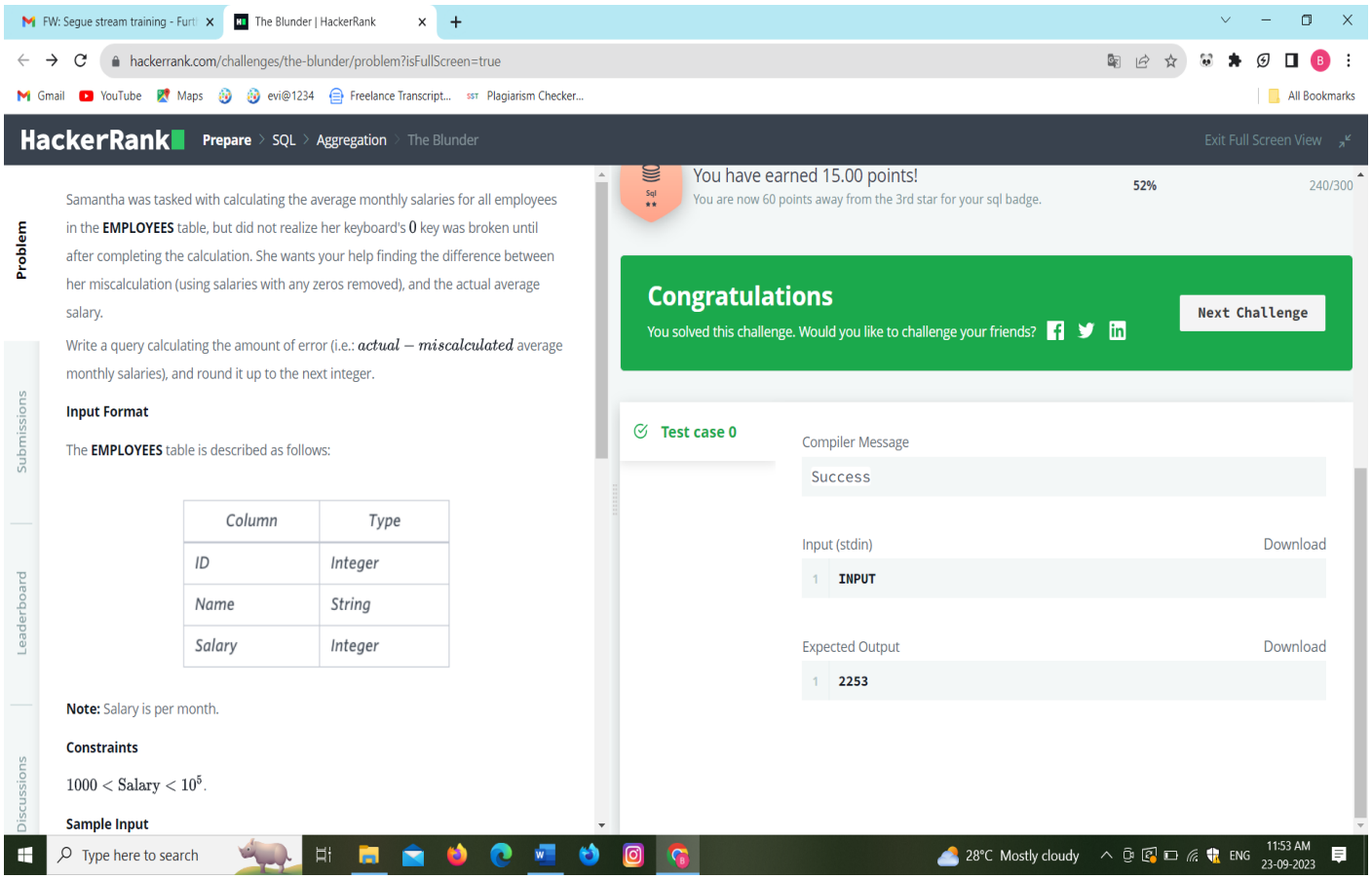
1.JAPAN POPULATION



2.POPULATION DENSITY DIFFERENCE



3.THE BLUNDER



Samantha was tasked with calculating the average monthly salaries for all employees in the **EMPLOYEES** table, but did not realize her keyboard's 0 key was broken until after completing the calculation. She wants your help finding the difference between her miscalculation (using salaries with any zeros removed), and the actual average salary.

Write a query calculating the amount of error (i.e.: $actual - miscalculated$ average monthly salaries), and round it up to the next integer.

Input Format

The **EMPLOYEES** table is described as follows:

Column	Type
ID	Integer
Name	String
Salary	Integer

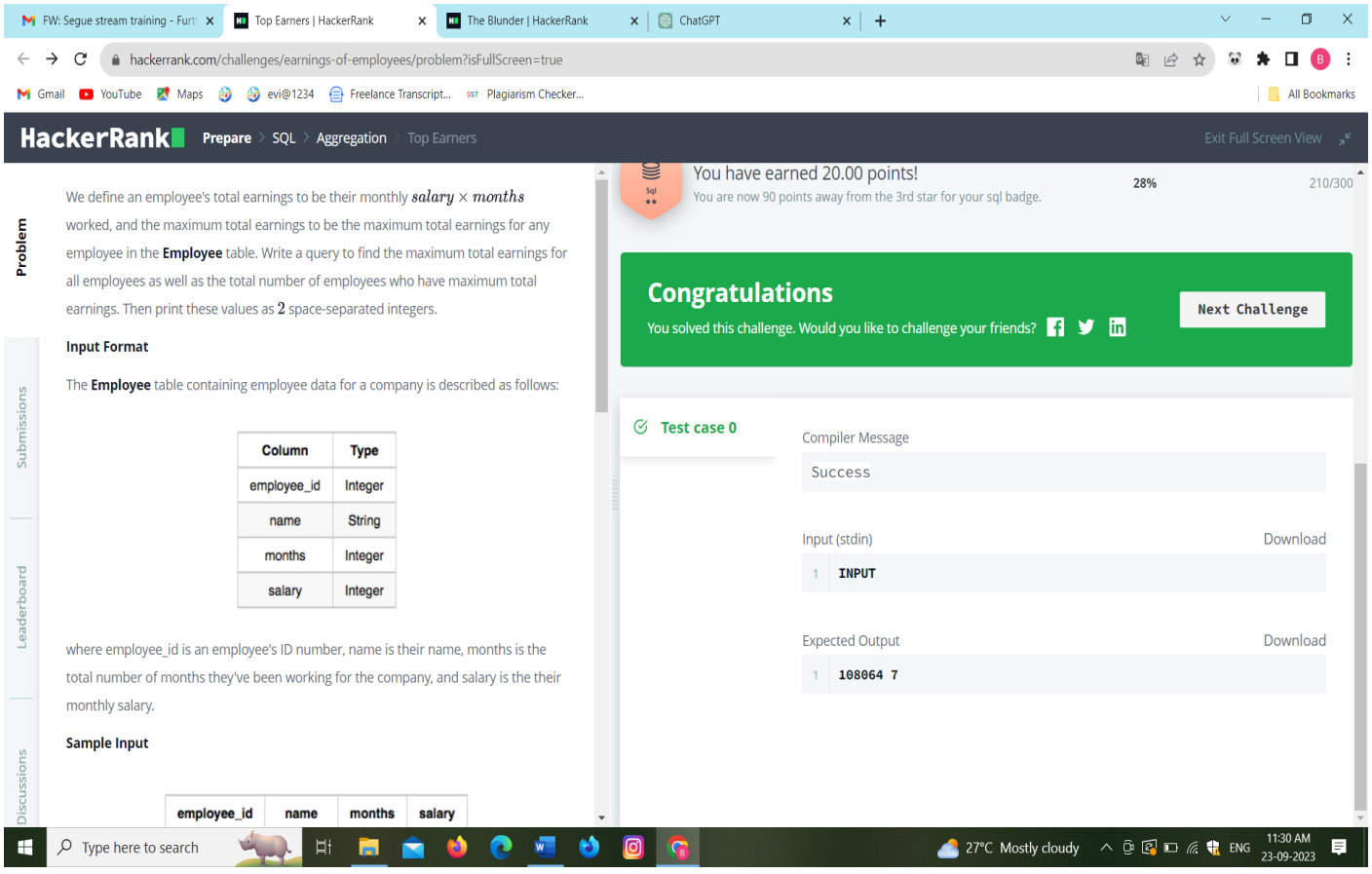
Note: Salary is per month.

Constraints

$1000 < \text{Salary} < 10^5$.

Sample Input

4.TOP EARNERS



We define an employee's total earnings to be their monthly $salary \times months$ worked, and the maximum total earnings to be the maximum total earnings for any employee in the **Employee** table. Write a query to find the maximum total earnings for all employees as well as the total number of employees who have maximum total earnings. Then print these values as 2 space-separated integers.

Input Format

The **Employee** table containing employee data for a company is described as follows:

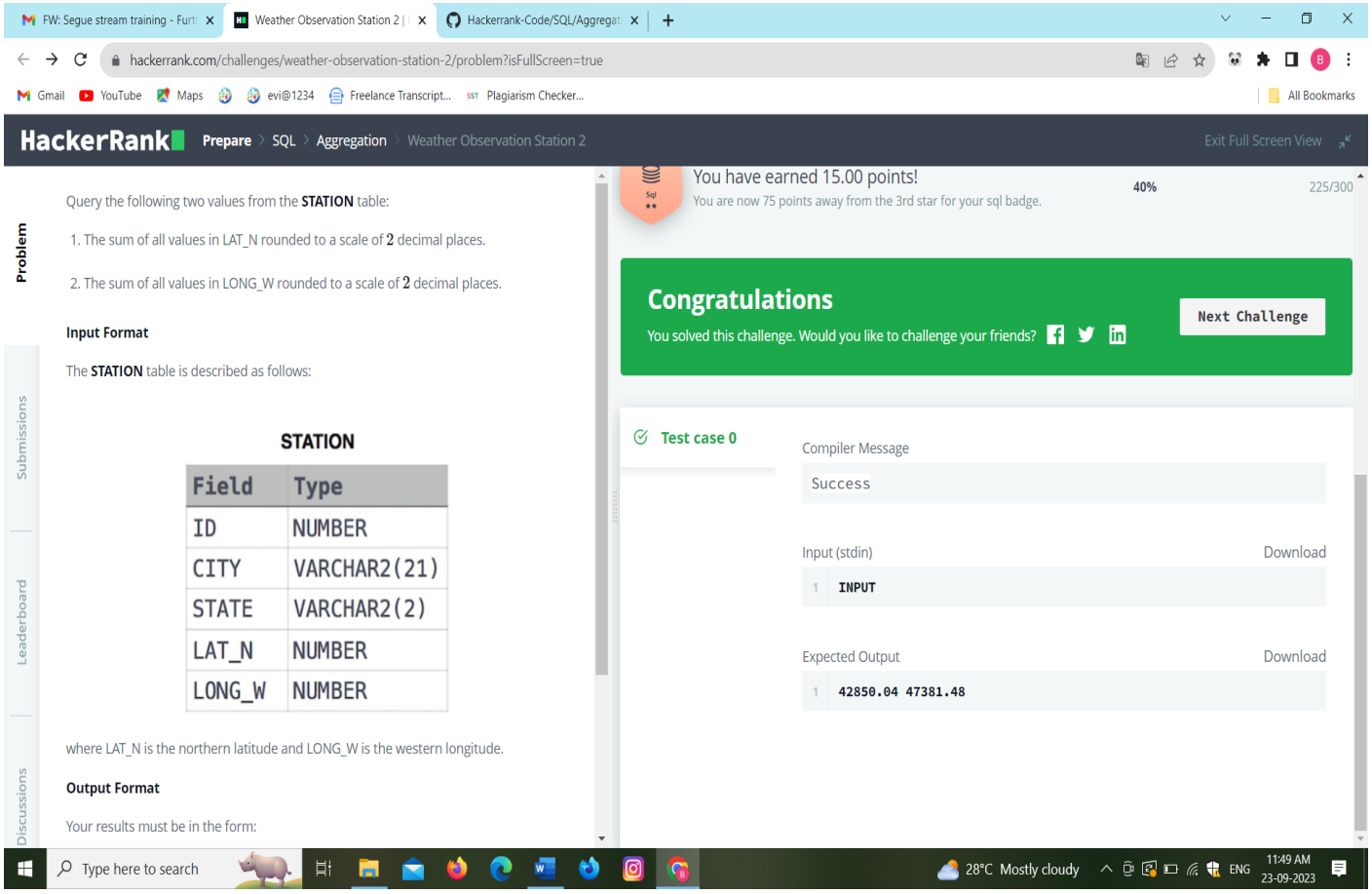
Column	Type
employee_id	Integer
name	String
months	Integer
salary	Integer

where employee_id is an employee's ID number, name is their name, months is the total number of months they've been working for the company, and salary is the their monthly salary.

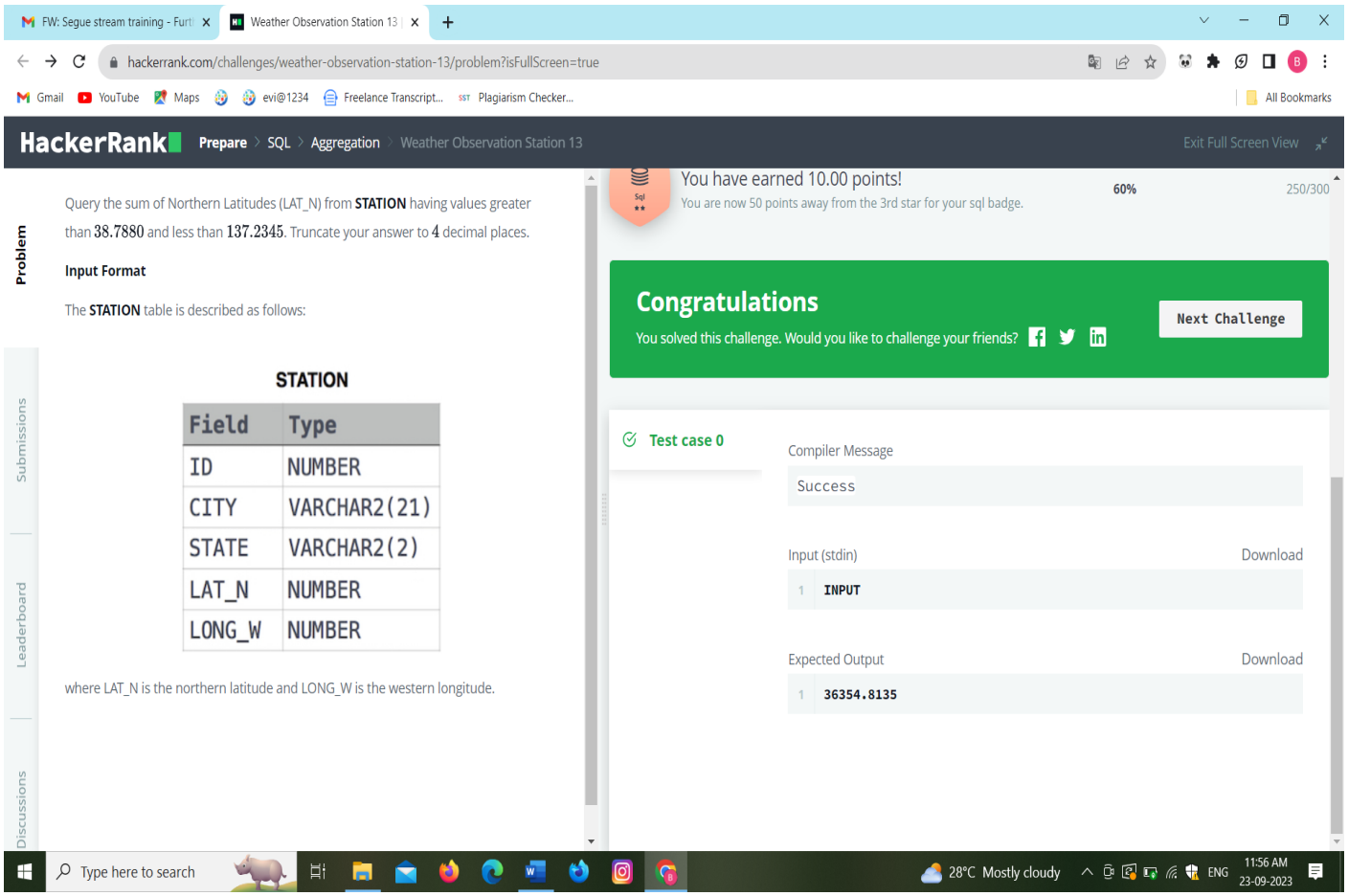
Sample Input

employee_id	name	months	salary

5.WHEATHER OBSERVATION STATION 2



6.WHEATHER OBSERVATION STATION 13



7.WHEATHER OBSERVATION STATION 14