**Problem Statement: -** Loan Interest Prediction

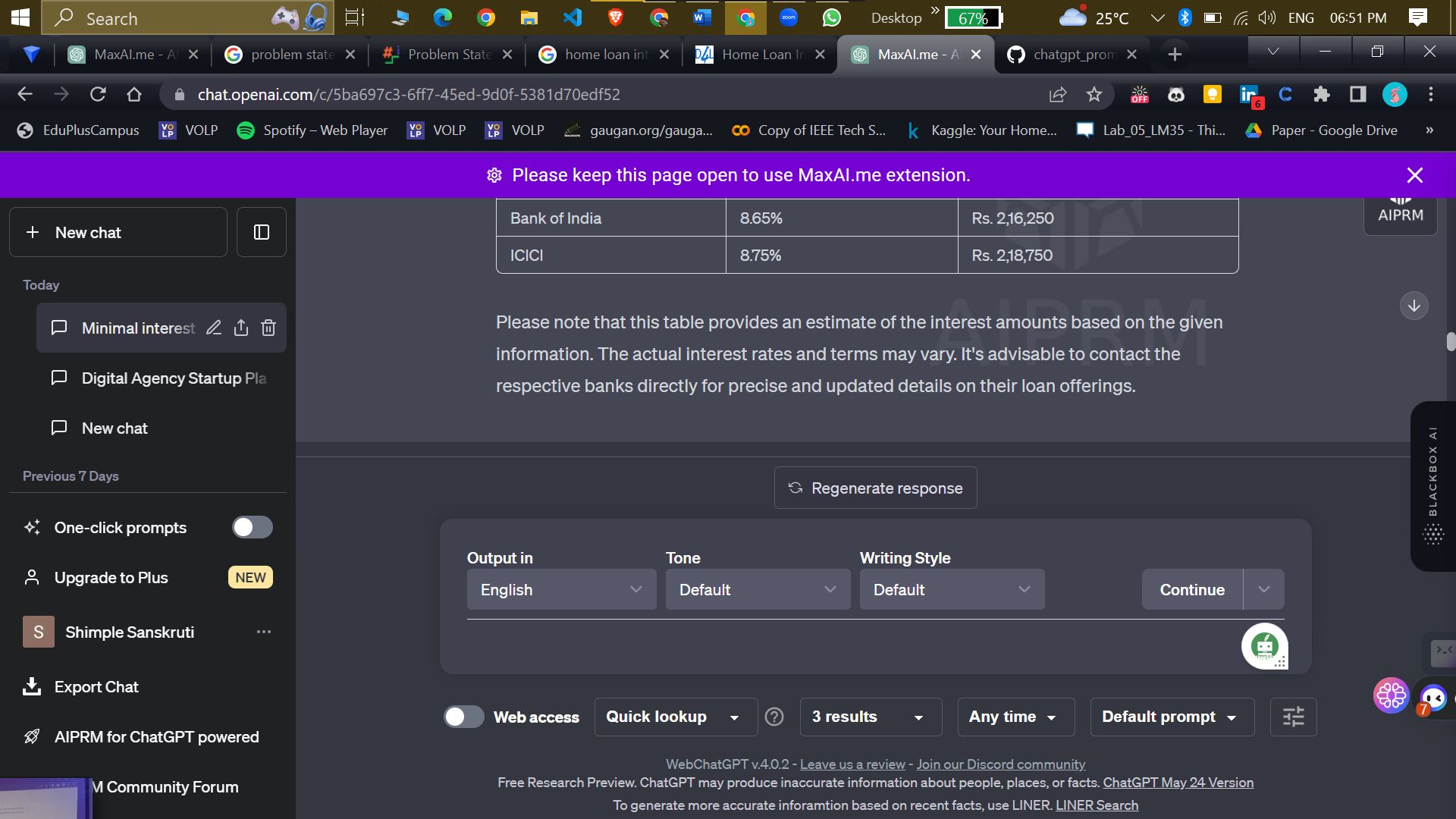
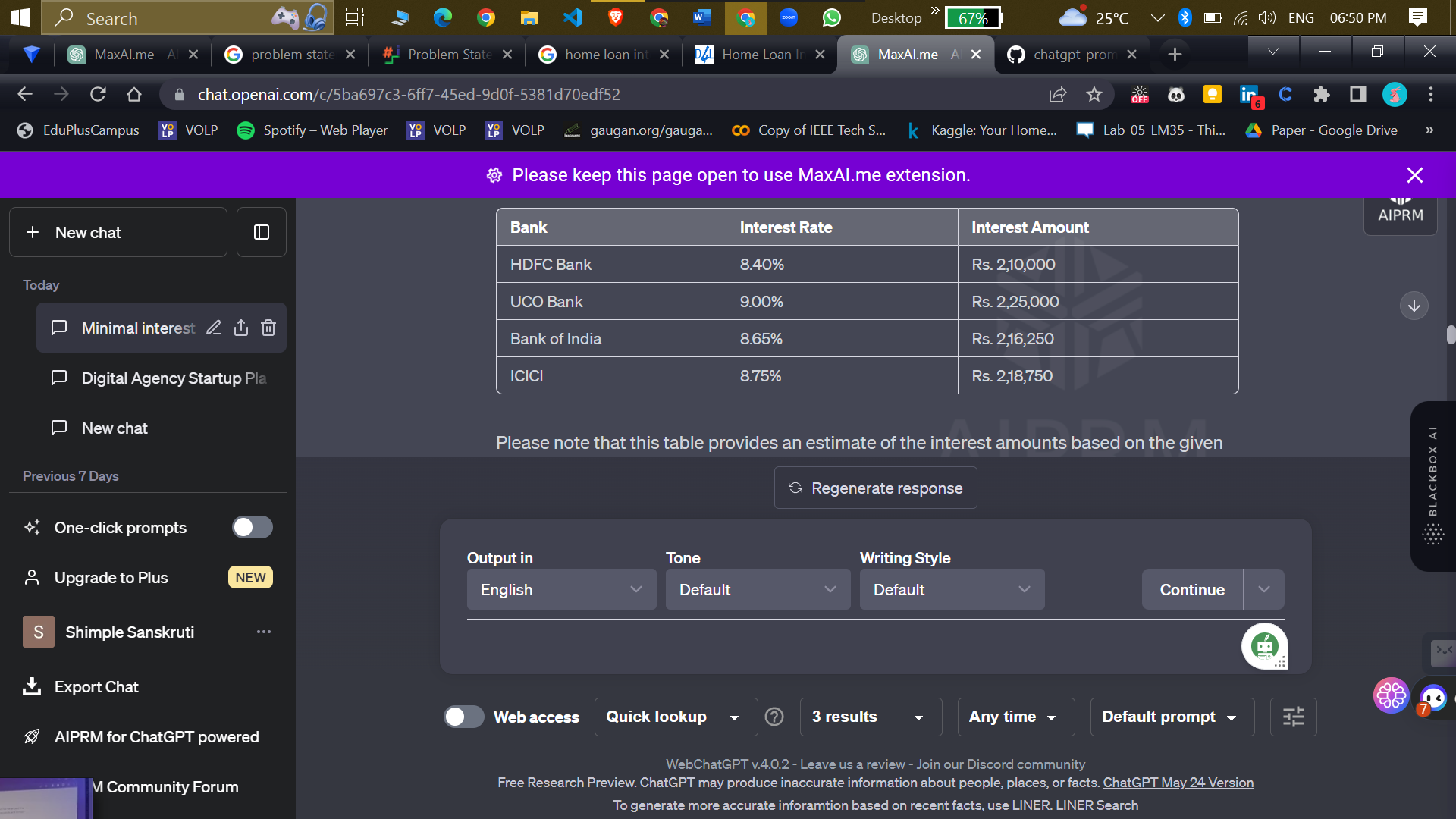
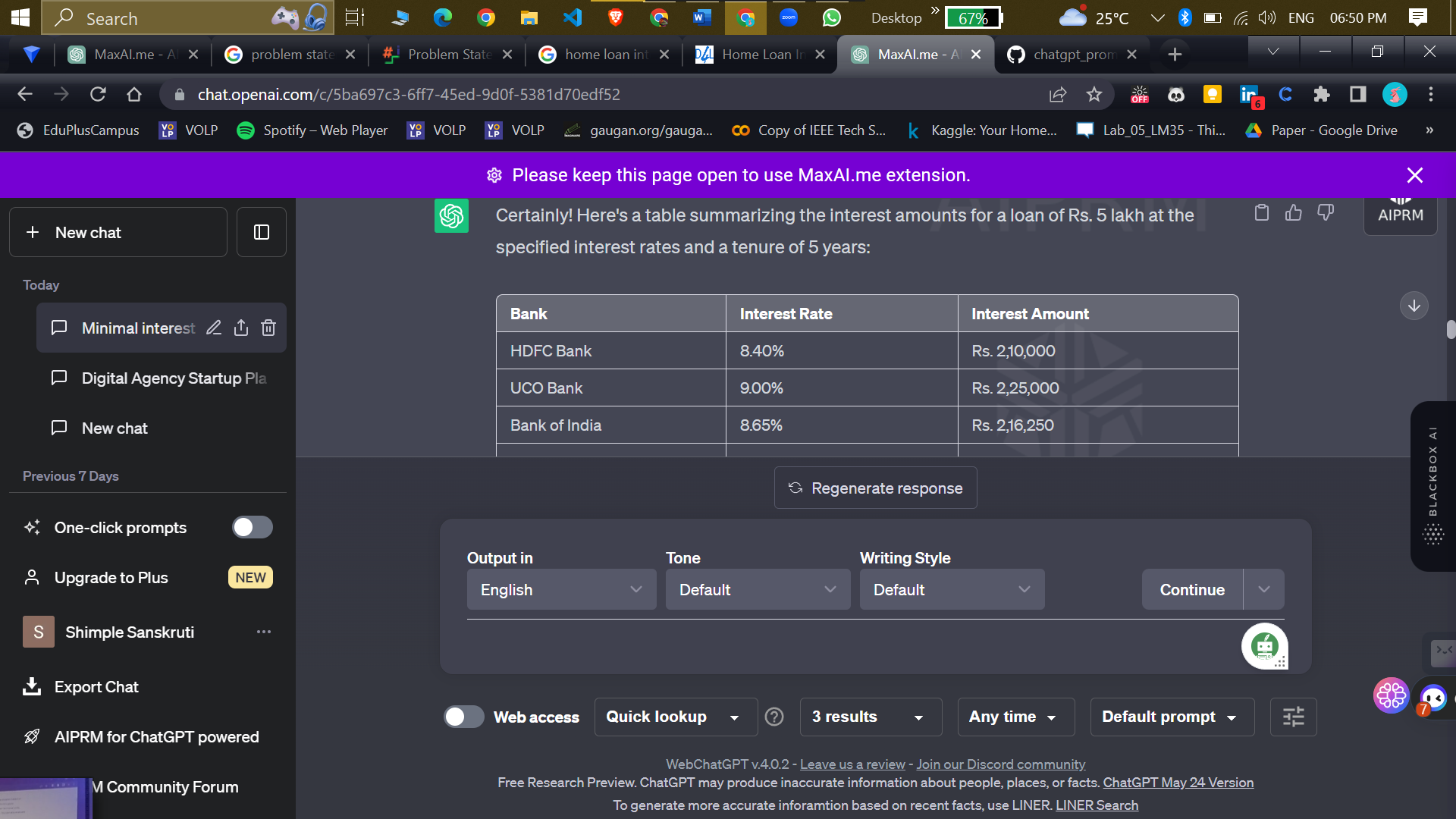
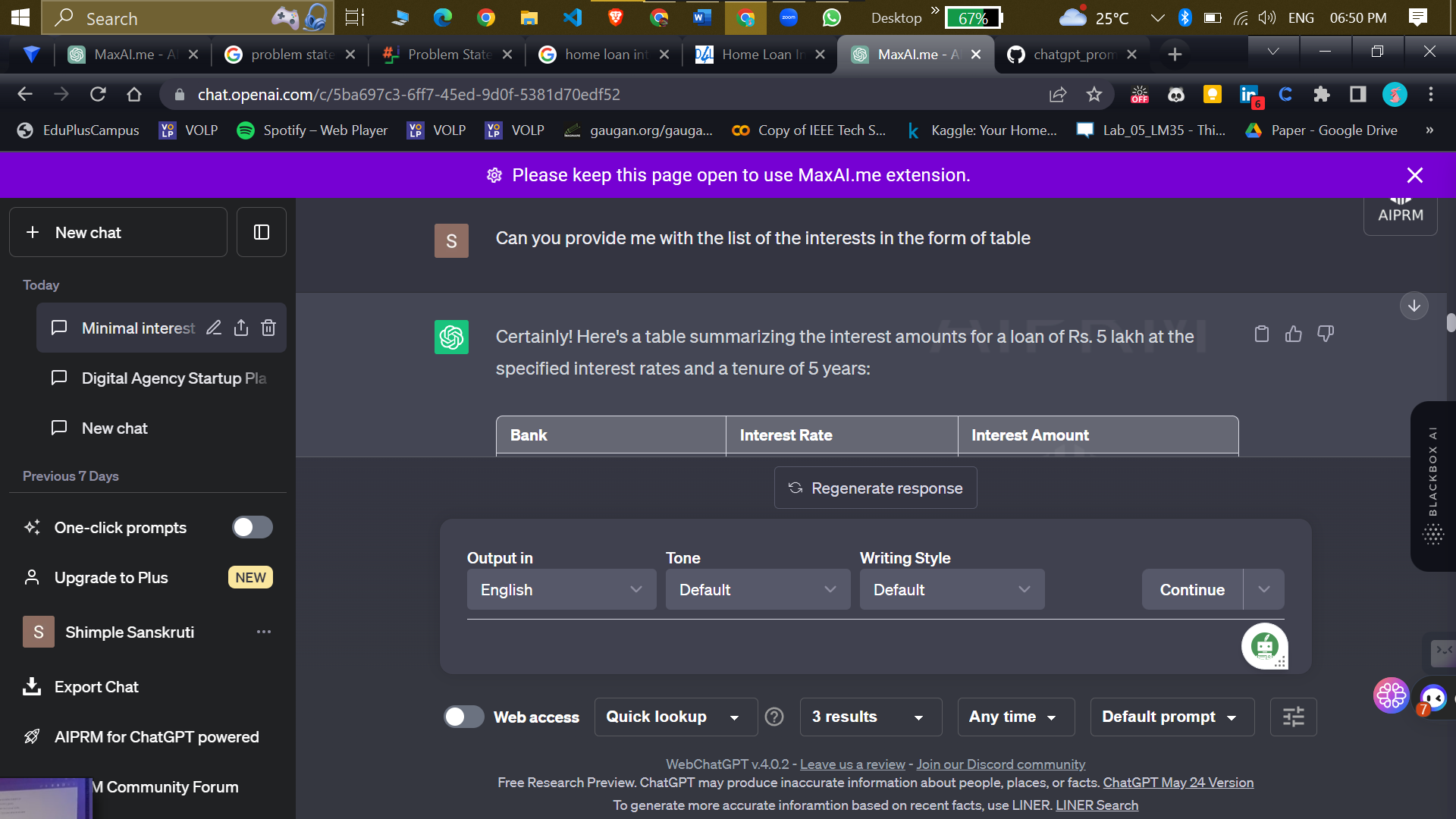
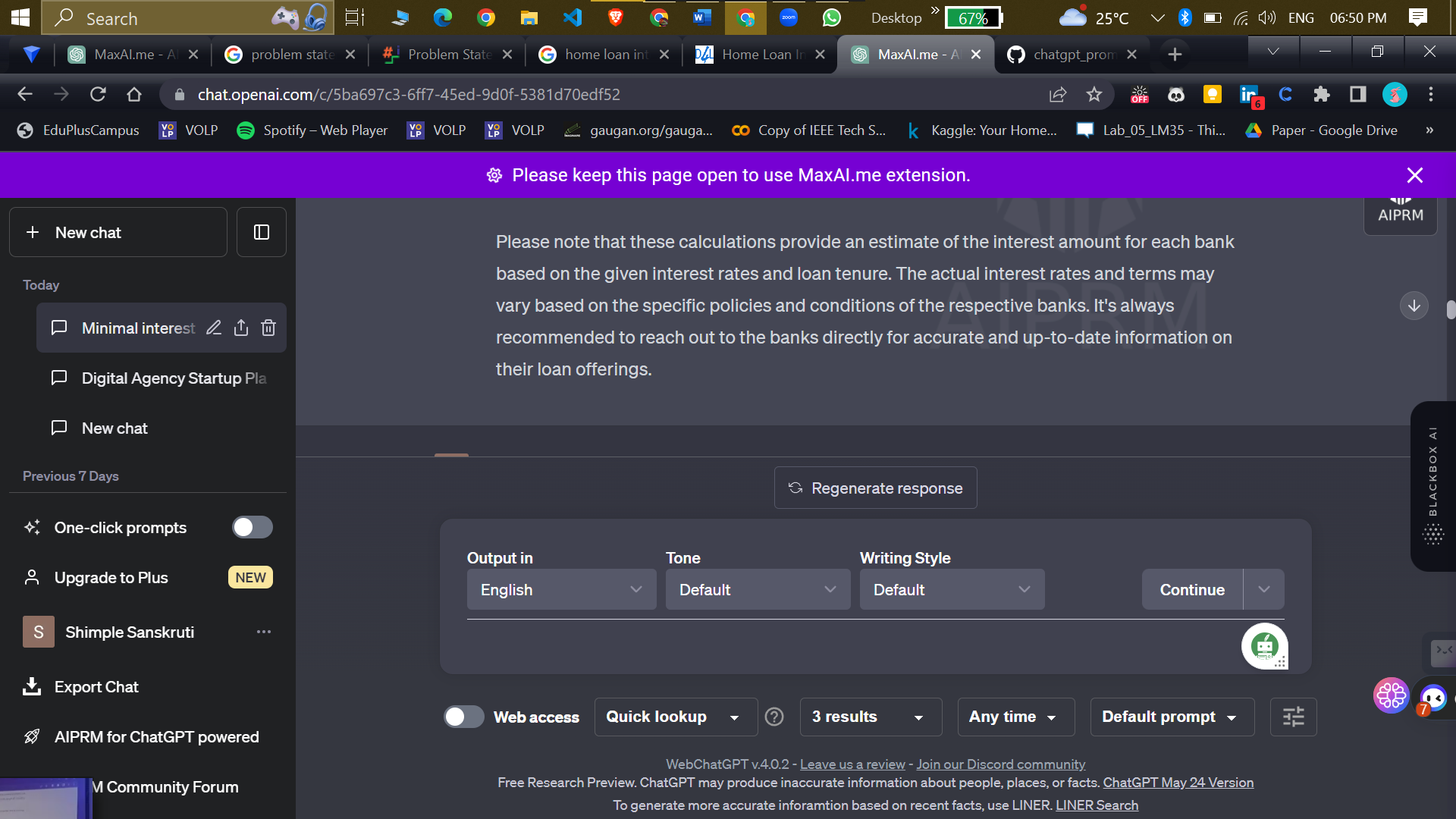
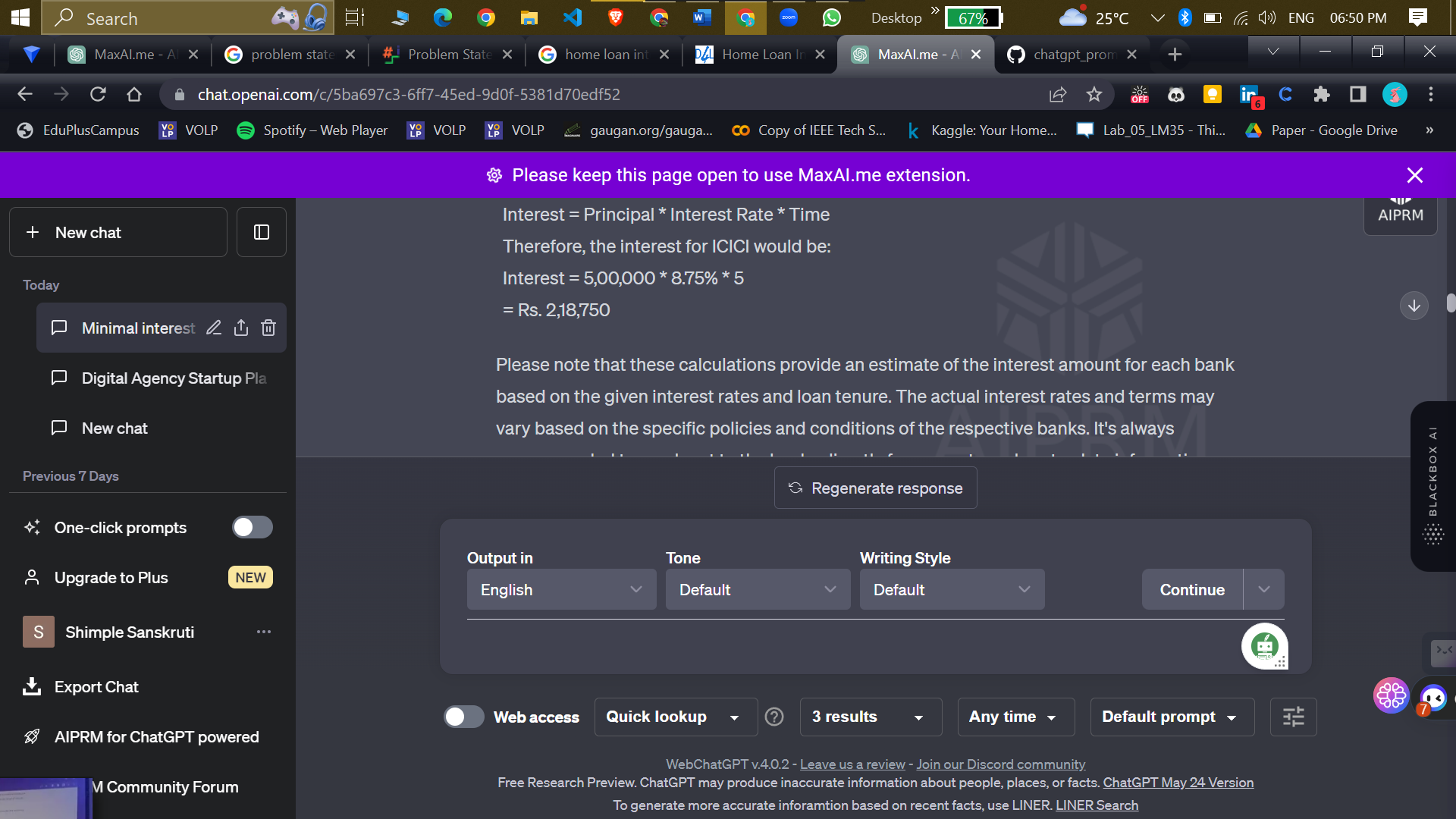
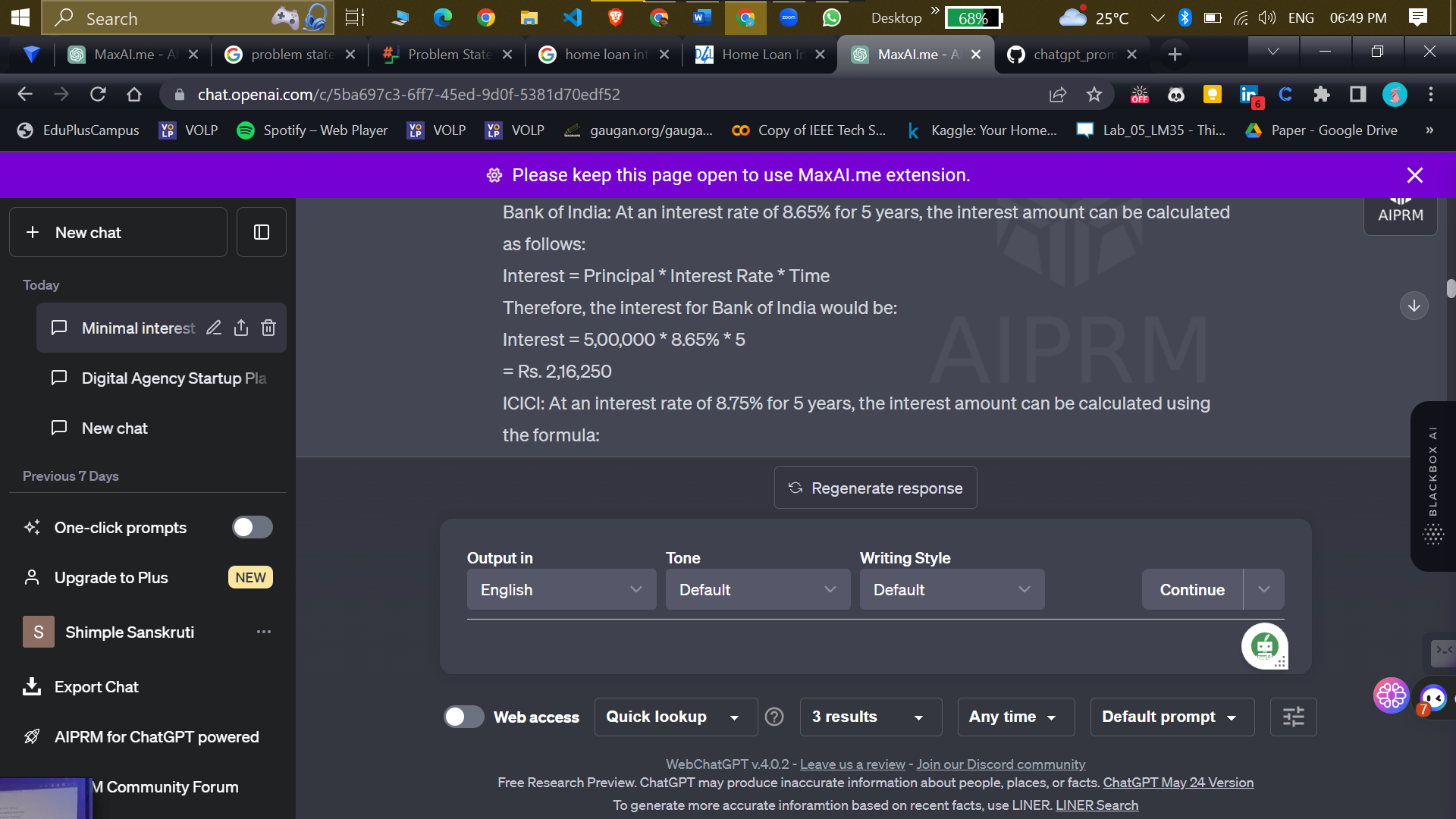
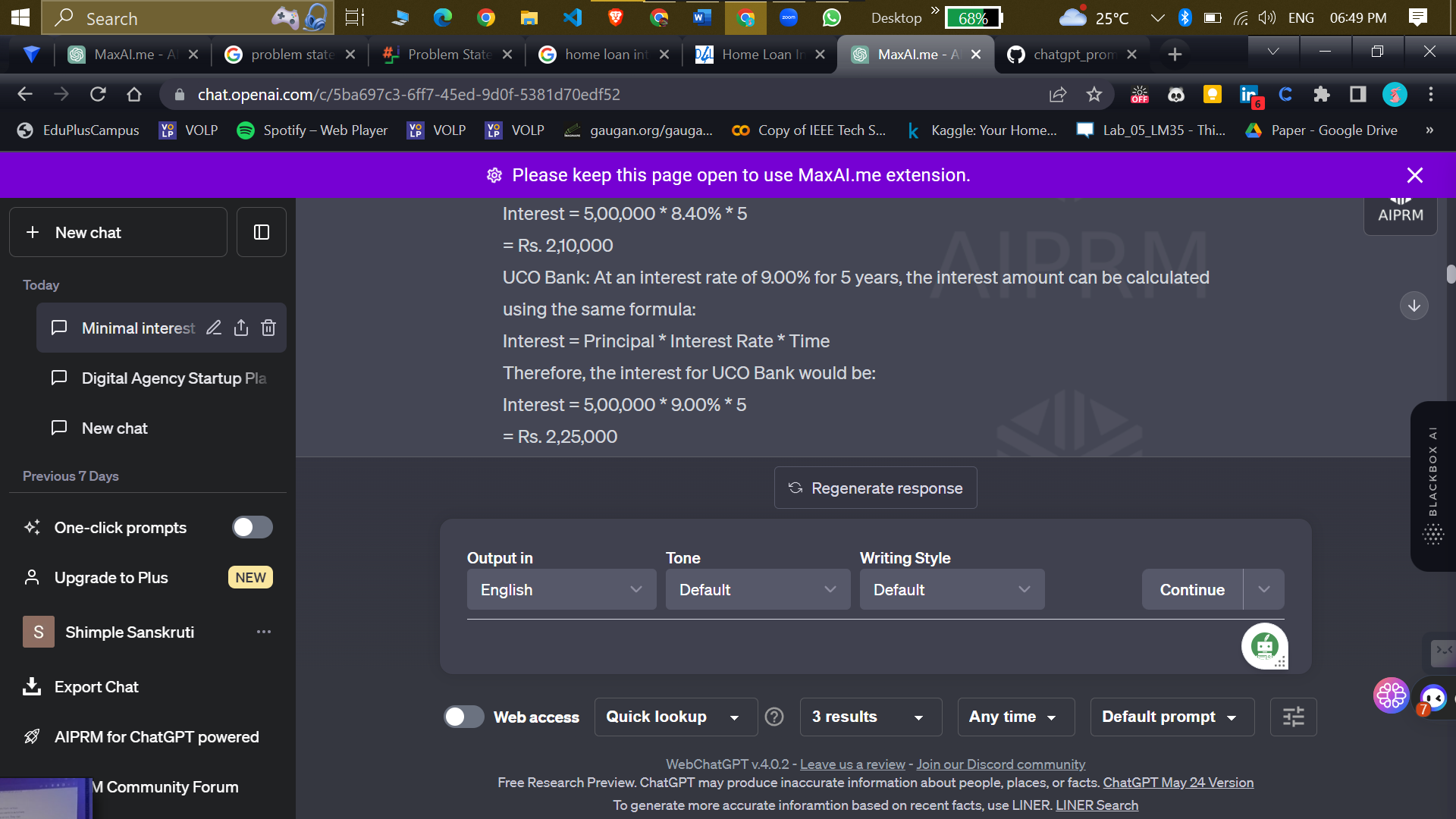
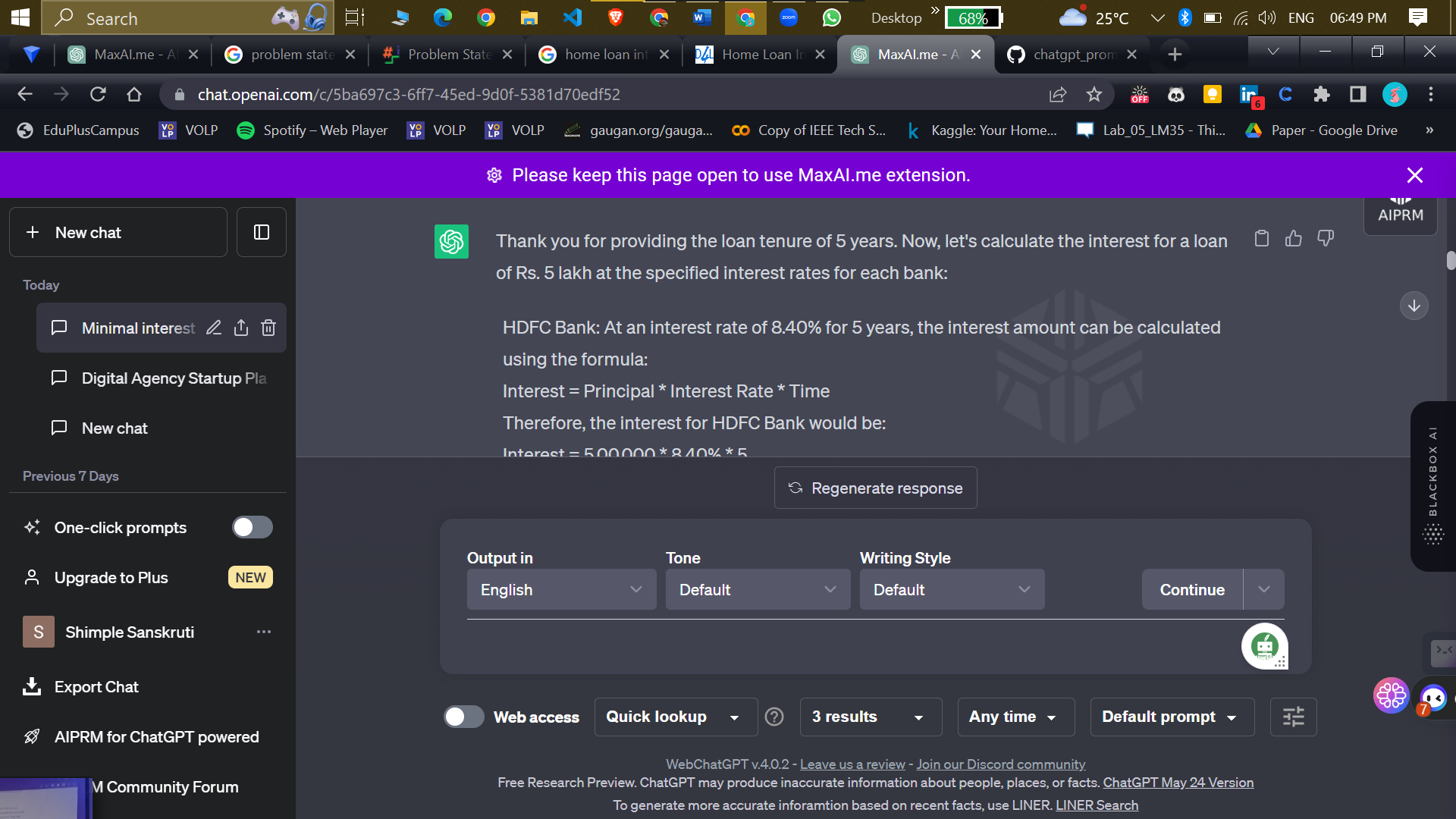
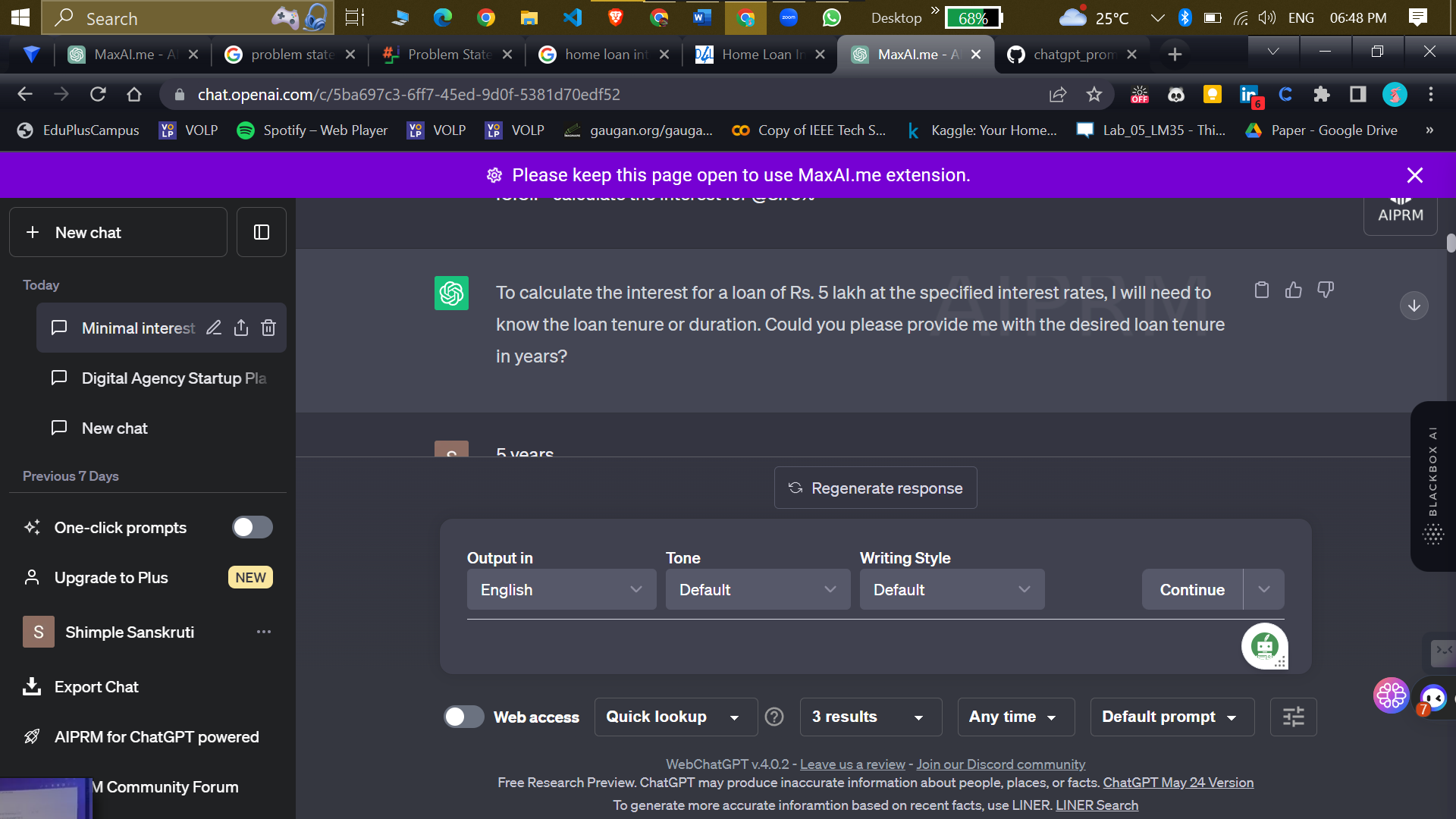
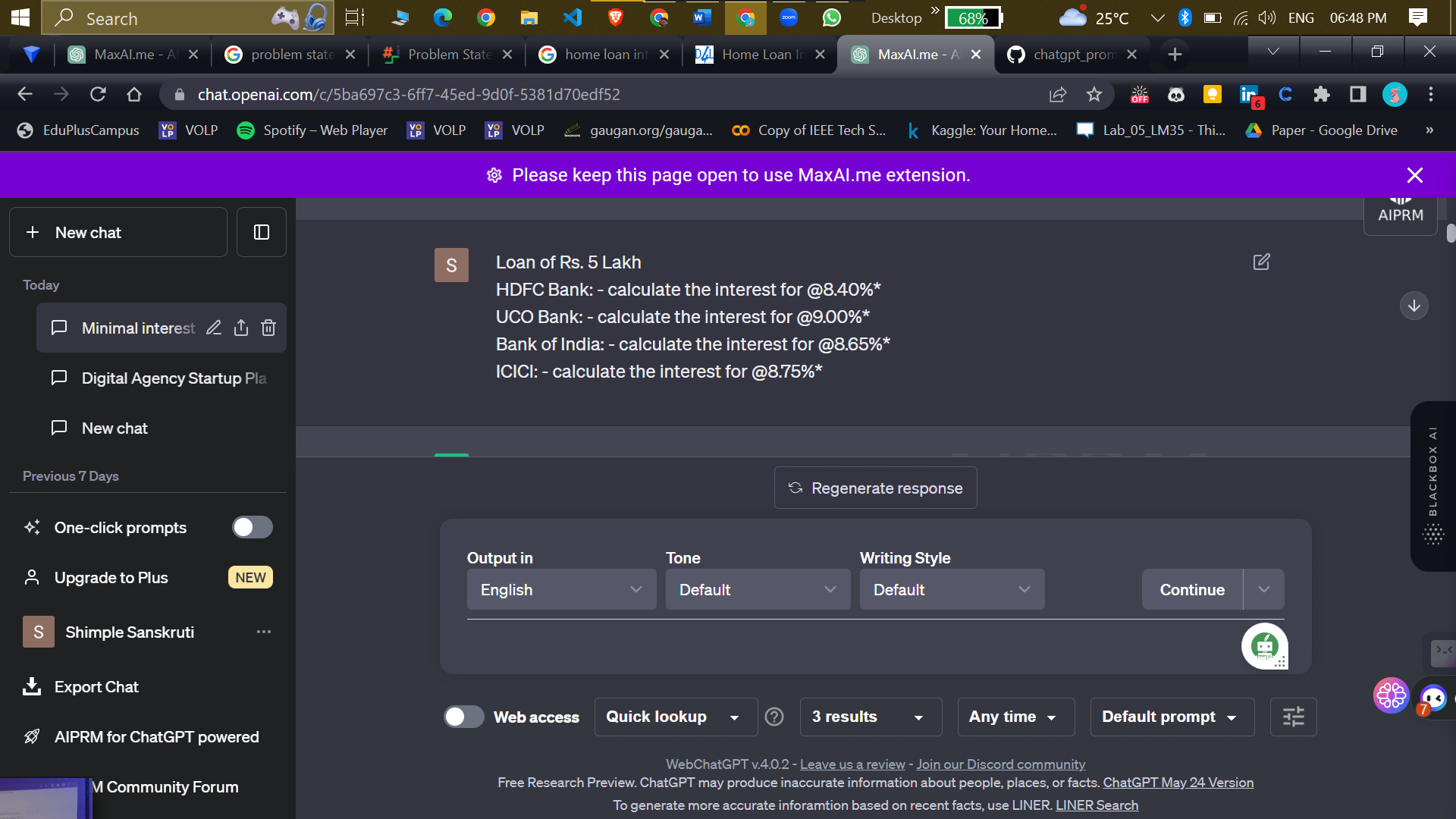
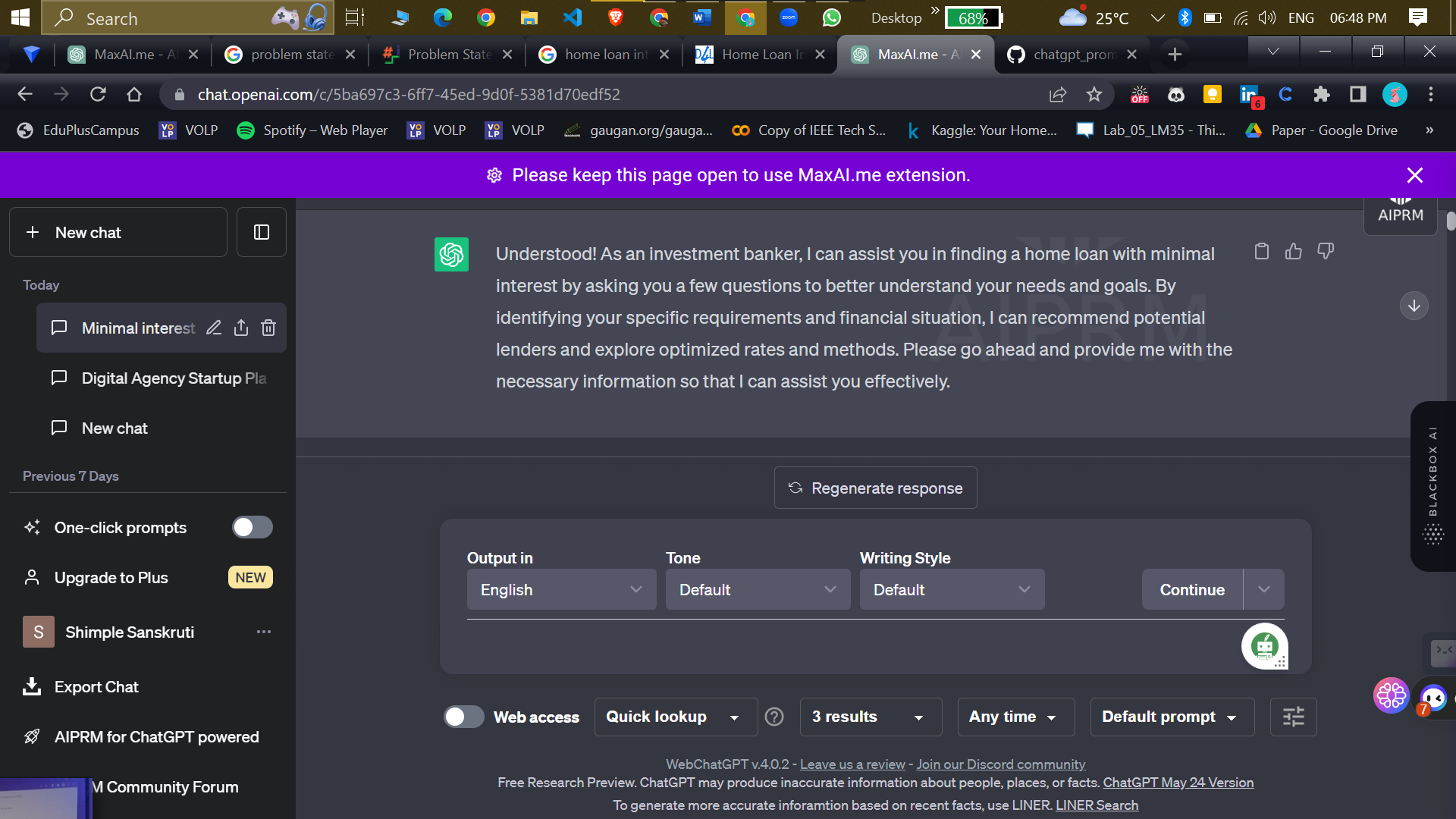
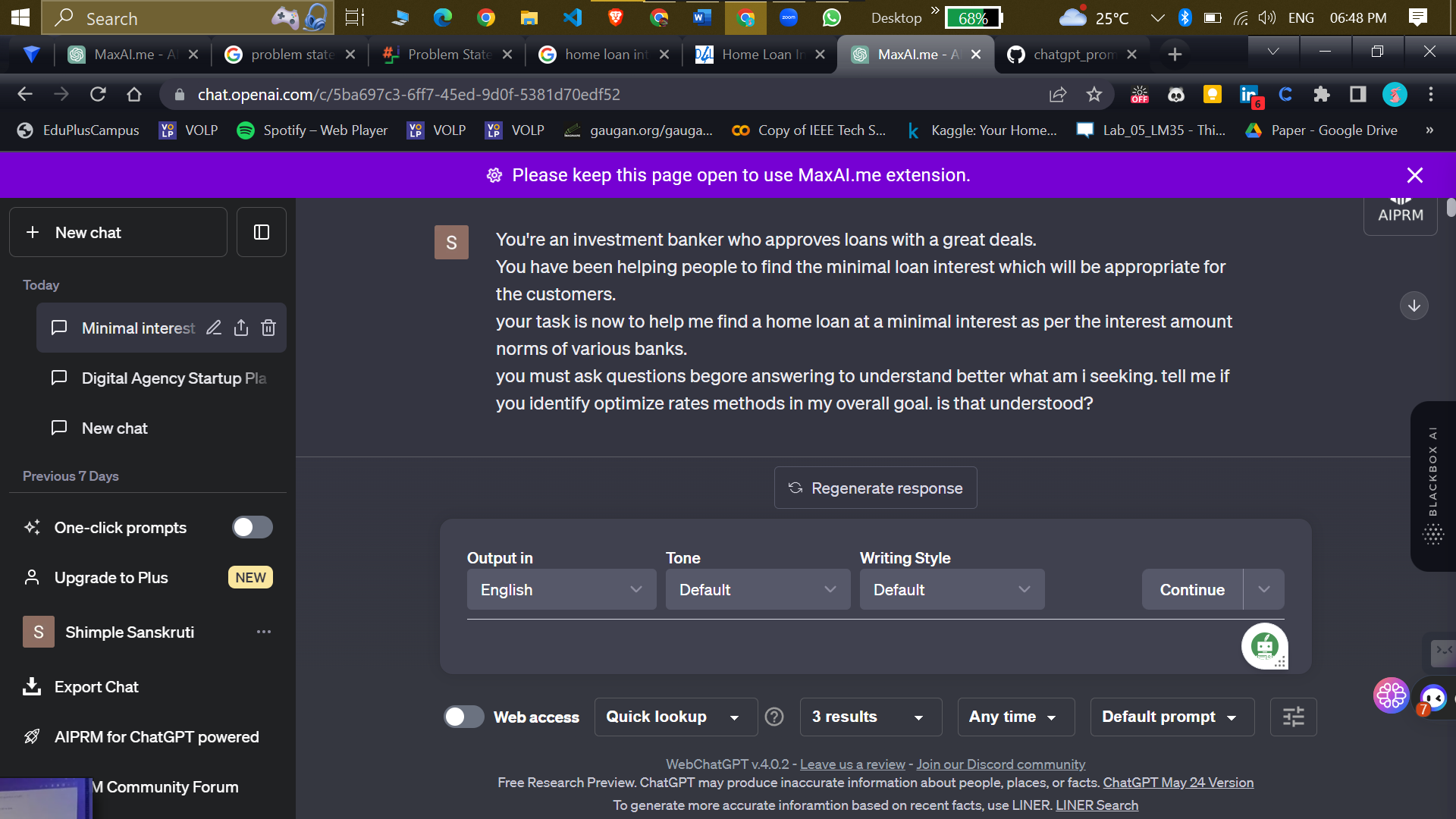
Developed a prompt that will calculate and provide the interest rates depending upon the interest rates at various banks. This will help find a minimal interest rate for the loan.

**Solution: -**

Step 1: - Prompt Development   
Step 2: - Loan Interest Rates of various Banks

Step 3: - Provide loan tenure in years.

Step 4: - List the calculated interests in the form of the table

ScreenShots  
  
1) 

Code:   
<b>1.Prompt: - </b>

You're an investment banker who approves loans with a great deals. You have been helping people to find the minimal loan interest which will be appropriate for the customers.

your task is now to help me find a home loan at a minimal interest as per the interest amount norms of various banks. you must ask questions begore answering to understand better what am i seeking. tell me if you identify optimize rates methods in my overall goal. is that understood?

<b>GPT Output: - <b>

Understood! As an investment banker, I can assist you in finding a home loan with minimal interest by asking you a few questions to better understand your needs and goals. By identifying your specific requirements and financial situation, I can recommend potential lenders and explore optimized rates and methods. Please go ahead and provide me with the necessary information so that I can assist you effectively.

<b>2.Prompt: - <b>

Loan of Rs. 5 Lakh

HDFC Bank: - calculate the interest for @8.40%\*

UCO Bank: - calculate the interest for @9.00%\*

Bank of India: - calculate the interest for @8.65%\*

ICICI: - calculate the interest for @8.75%\*

<b>GPT Output - Question: - <b>

To calculate the interest for a loan of Rs. 5 lakh at the specified interest rates, I will need to know the loan tenure or duration. Could you please provide me with the desired loan tenure in years?

<b>Prompt: - <b>

5 years

<b>Output: - <b>

Thank you for providing the loan tenure of 5 years. Now, let's calculate the interest for a loan of Rs. 5 lakh at the specified interest rates for each bank:

1. HDFC Bank: At an interest rate of 8.40% for 5 years, the interest amount can be calculated using the formula:

Interest = Principal \* Interest Rate \* Time

Therefore, the interest for HDFC Bank would be:

Interest = 5,00,000 \* 8.40% \* 5

= Rs. 2,10,000

2. UCO Bank: At an interest rate of 9.00% for 5 years, the interest amount can be calculated using the same formula:

Interest = Principal \* Interest Rate \* Time

Therefore, the interest for UCO Bank would be:

Interest = 5,00,000 \* 9.00% \* 5

= Rs. 2,25,000

3. Bank of India: At an interest rate of 8.65% for 5 years, the interest amount can be calculated as follows:

Interest = Principal \* Interest Rate \* Time

Therefore, the interest for Bank of India would be:

Interest = 5,00,000 \* 8.65% \* 5

= Rs. 2,16,250

4. ICICI: At an interest rate of 8.75% for 5 years, the interest amount can be calculated using the formula:

Interest = Principal \* Interest Rate \* Time

Therefore, the interest for ICICI would be:

Interest = 5,00,000 \* 8.75% \* 5

= Rs. 2,18,750

Please note that these calculations provide an estimate of the interest amount for each bank based on the given interest rates and loan tenure. The actual interest rates and terms may vary based on the specific policies and conditions of the respective banks. It's always recommended to reach out to the banks directly for accurate and up-to-date information on their loan offerings.

<b>Prompt: - <b>

Can you provide me with the list of the interests in the form of table

<b>Output: - <b>

Certainly! Here's a table summarizing the interest amounts for a loan of Rs. 5 lakh at the specified interest rates and a tenure of 5 years:

| Bank | Interest Rate | Interest Amount |

|------------------|-------------------|-----------------------|

| HDFC Bank | 8.40% | Rs. 2,10,000 |

| UCO Bank | 9.00% | Rs. 2,25,000 |

| Bank of India | 8.65% | Rs. 2,16,250 |

| ICICI | 8.75% | Rs. 2,18,750 |

Please note that this table provides an estimate of the interest amounts based on the given information. The actual interest rates and terms may vary. It's advisable to contact the respective banks directly for precise and updated details on their loan offerings.