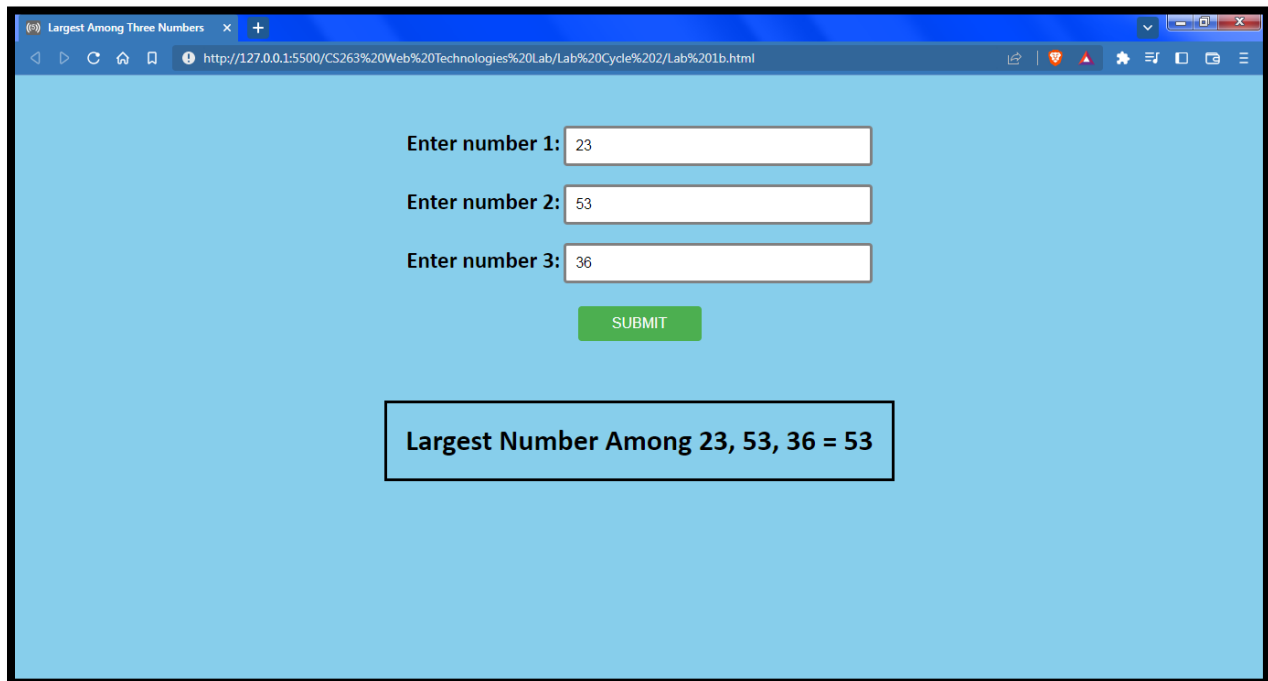


Program 1(a):

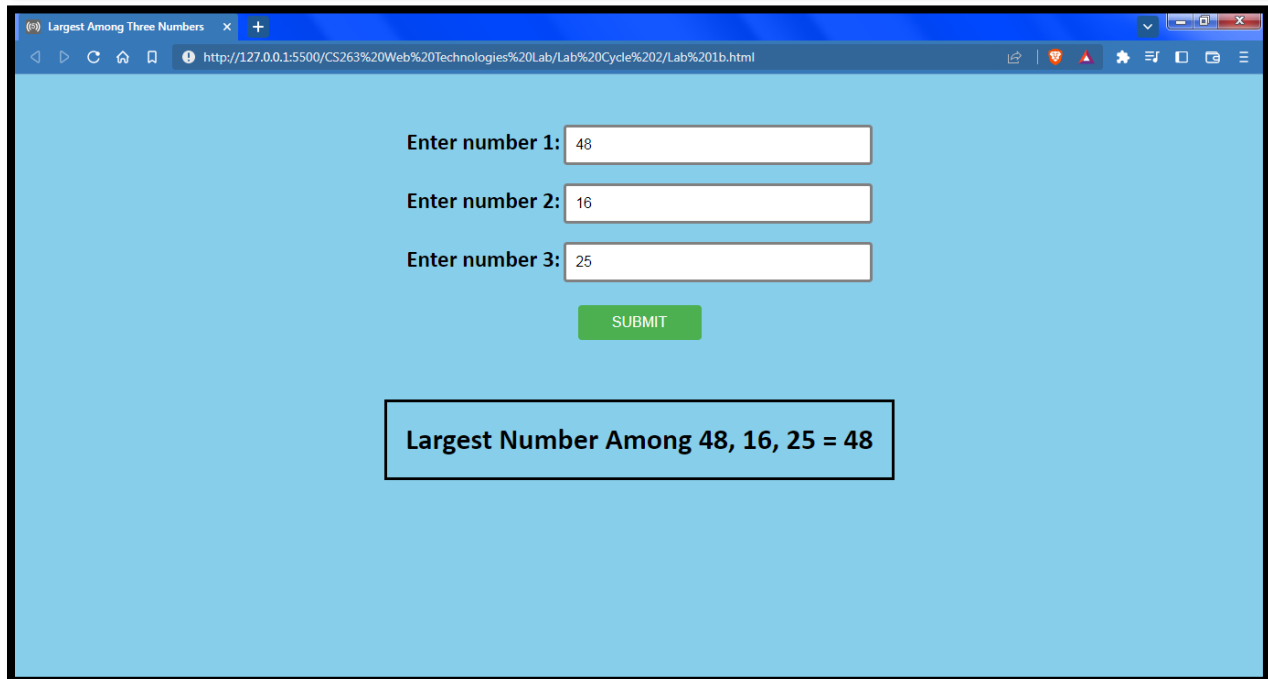
The screenshot shows a web browser window titled "Leap Year Calculator". The address bar displays the URL "http://127.0.0.1:5500/CS263%20Web%20Technologies%20Lab/Lab%20Cycle%202/Lab%201a.html". The main content area has a light blue background. It contains the text "Enter a year:" followed by a text input field containing the value "2020". Below the input field is a green button labeled "SUBMIT". At the bottom of the form, a black-bordered box contains the text "2020 is a Leap Year".

The screenshot shows the same web browser window as above, but with the input field containing the value "2023". The green "SUBMIT" button remains. The black-bordered box at the bottom now contains the text "2023 is not a Leap Year".

Program 1(b):



The screenshot shows a web browser window with the title "Largest Among Three Numbers". The address bar displays the URL "http://127.0.0.1:5500/CS263%20Web%20Technologies%20Lab/Lab%20Cycle%202/Lab%201b.html". The page has a light blue background. It contains three input fields for numbers, each preceded by a label: "Enter number 1:", "Enter number 2:", and "Enter number 3:". The values entered are 23, 53, and 36 respectively. Below the input fields is a green "SUBMIT" button. At the bottom, a black-bordered box contains the text "Largest Number Among 23, 53, 36 = 53".



The screenshot shows the same web browser window as above, but with different input values. The inputs are 48, 16, and 25. The "SUBMIT" button is still present. The output box at the bottom now displays "Largest Number Among 48, 16, 25 = 48".

Program 1(c):

Simple Calculator

http://127.0.0.1:5500/CS263%20Web%20Technologies%20Lab/Lab%20Cycle%202/Lab%201c.html

Enter 1st Operand: 21

Enter Operator: +

Enter 2nd Operand: 56

SUBMIT

The Expression: 21 + 56 = 77

Simple Calculator

http://127.0.0.1:5500/CS263%20Web%20Technologies%20Lab/Lab%20Cycle%202/Lab%201c.html

Enter 1st Operand: 9

Enter Operator: **

Enter 2nd Operand: 3

SUBMIT

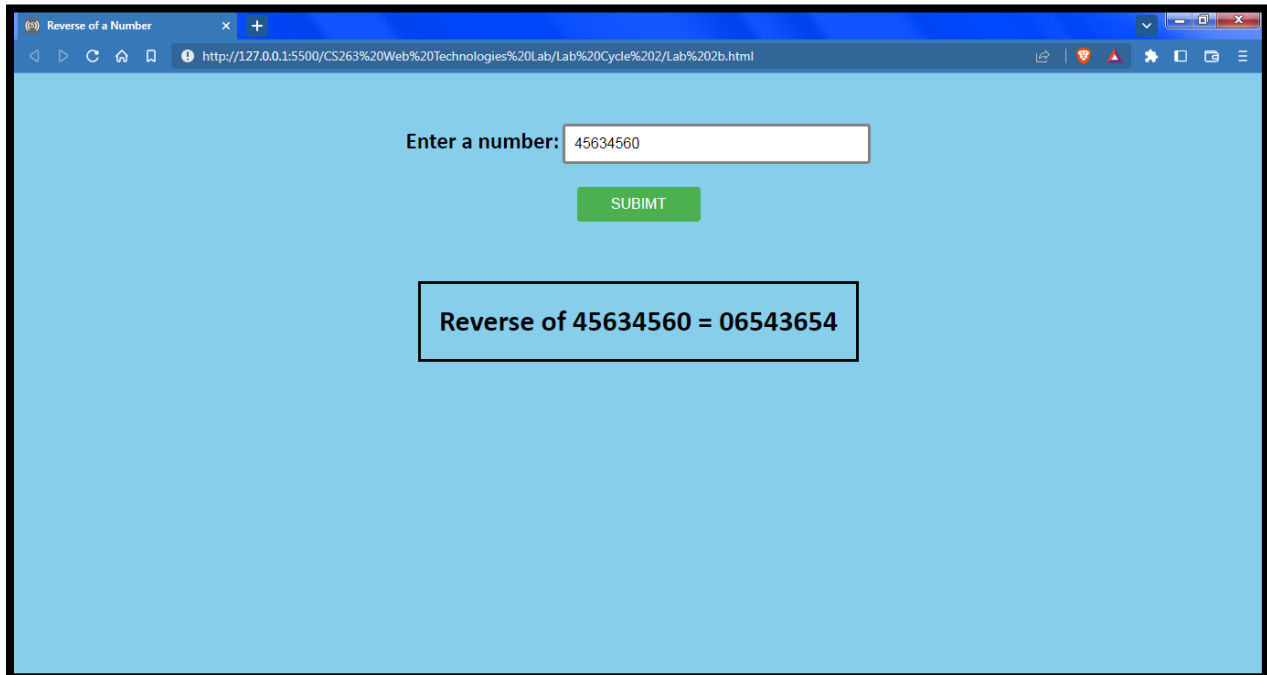
The Expression: 9 ** 3 = 729

Program 2(a):

The screenshot shows a web browser window with the title "Sum Of Digits of a Number". The address bar displays the URL "http://127.0.0.1:5500/CS263%20Web%20Technologies%20Lab/Lab%20Cycle%202/Lab%202a.html". The main content area has a light blue background. It contains a text input field with the value "235343" and a green "SUBMIT" button below it. Below the button, a black-bordered box displays the result: "Sum of Digits of 235343 = 20".

The screenshot shows the same web browser window. The input field now contains the value "-5535430". After clicking the "SUBMIT" button, the result box displays: "Sum of Digits of -5535430 = 25".

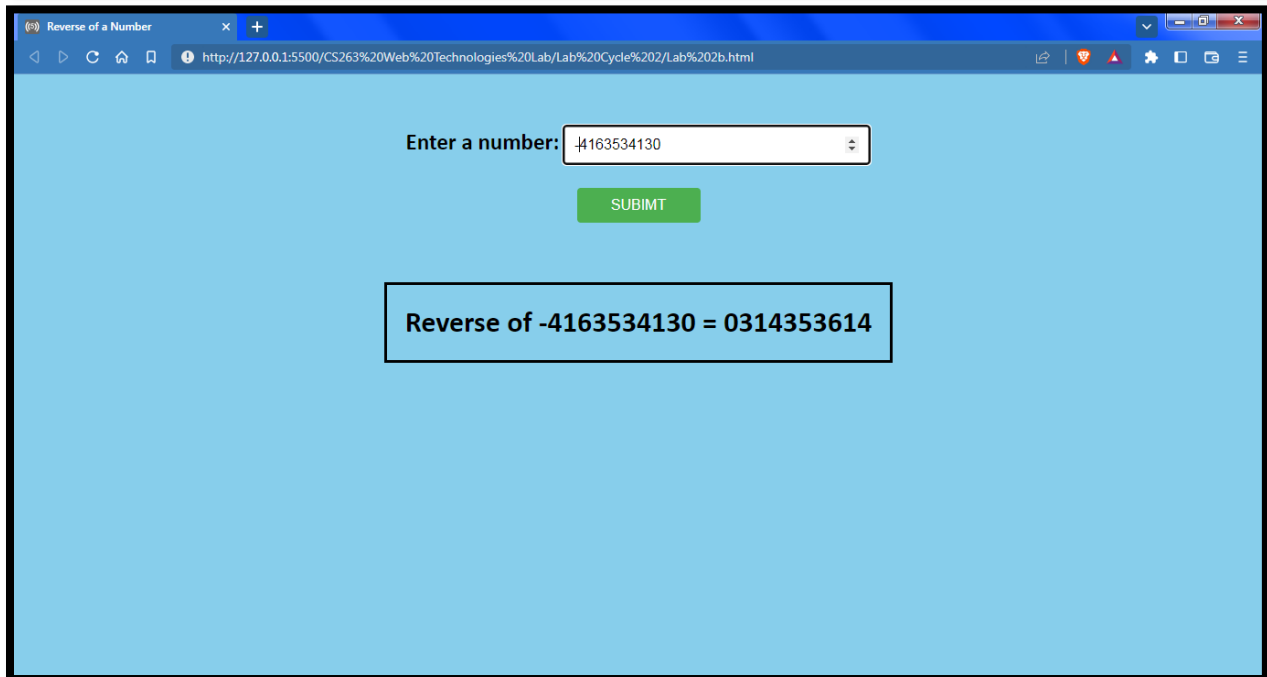
Program 2(b):



Reverse of a Number

Enter a number:

Reverse of 45634560 = 06543654

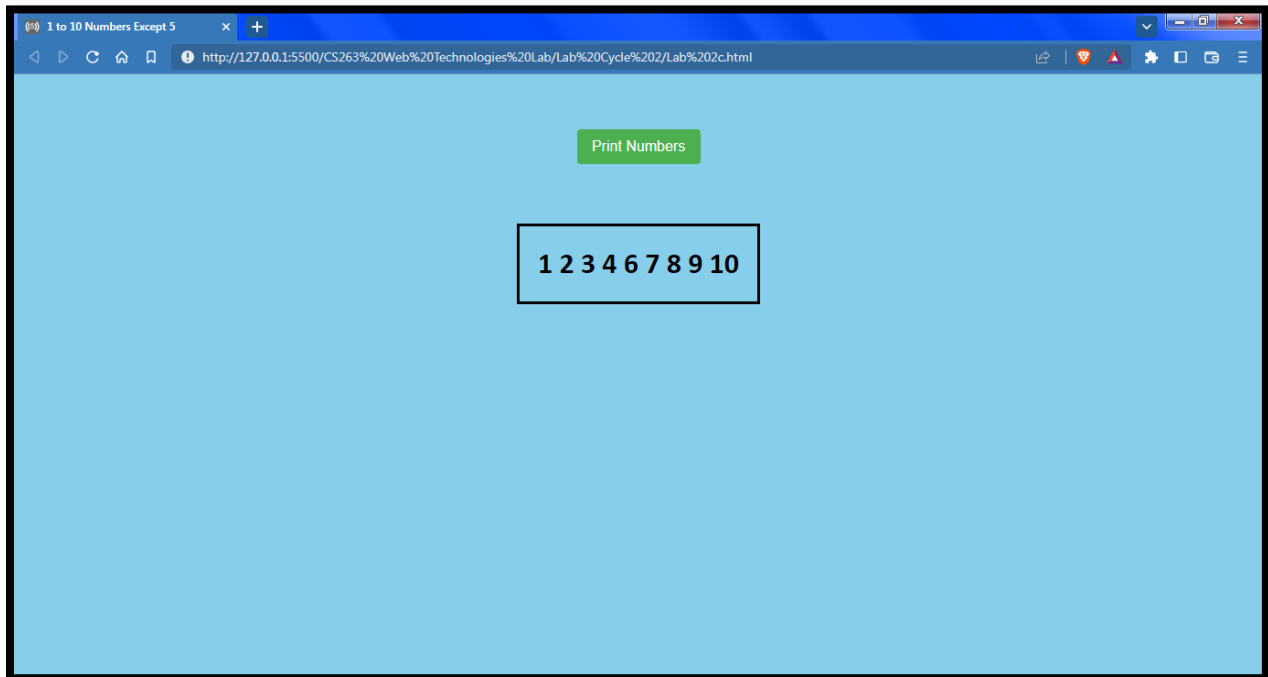
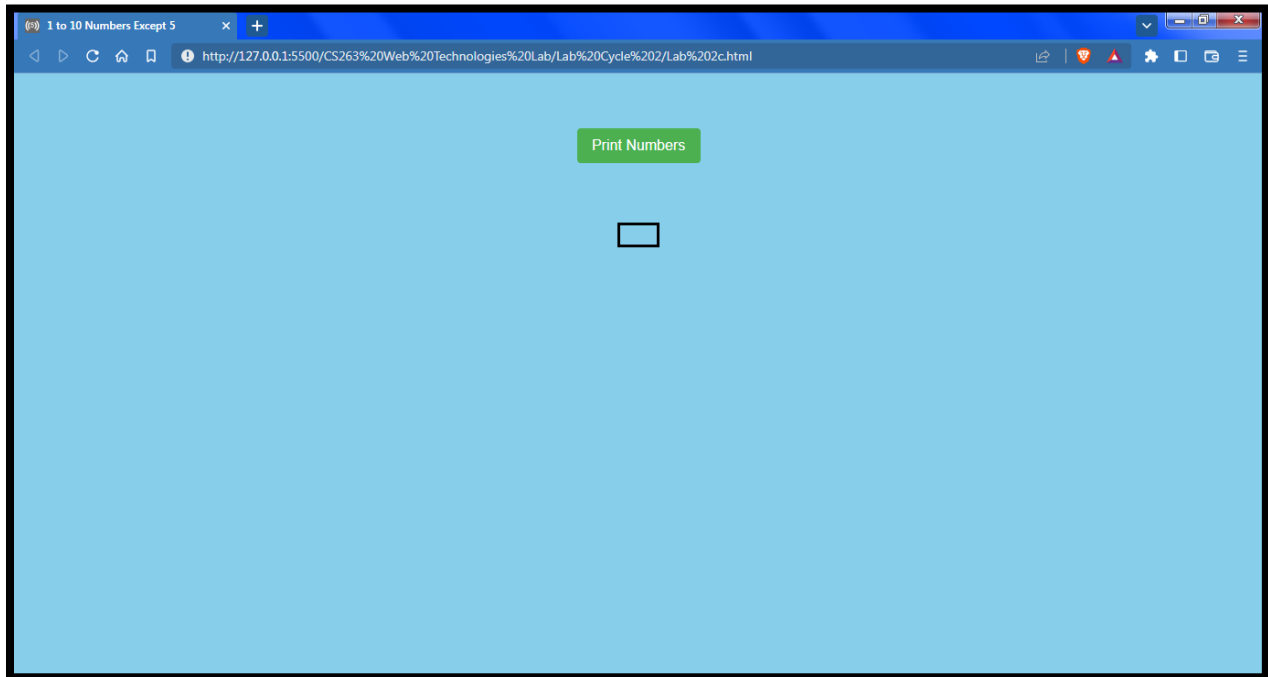


Reverse of a Number

Enter a number:

Reverse of -4163534130 = 0314353614

Program 2(c):



GCD, Reverse Number, Random | x

http://127.0.0.1:5500/CS263%20Web%20Technologies%20Lab/Lab%20Cycle%202/Lab%203a.html

GCD:

Enter number 1:

Enter number 2:

SUBMIT

GCD of 536 and 464 = 8

Reverse Number:

Enter the number:

SUBMIT

Reverse of 4534534 = 4354354

Random Number:

Enter the range(max exclusive):

to

SUBMIT

A Random Number in the range (20, 50): 47

Recursive Functions

http://127.0.0.1:5500/CS263%20Web%20Technologies%20Lab/Lab%20Cycle%202/Lab%203b.html

Factorial:

Enter a number:

SUBMIT

Factorial of 6 = 720

Fibonacci Numbers:

Enter the count:

SUBMIT

**The First 10 Fibonacci Numbers are:
0, 1, 1, 2, 3, 5, 8, 13, 21, 34**

Power:

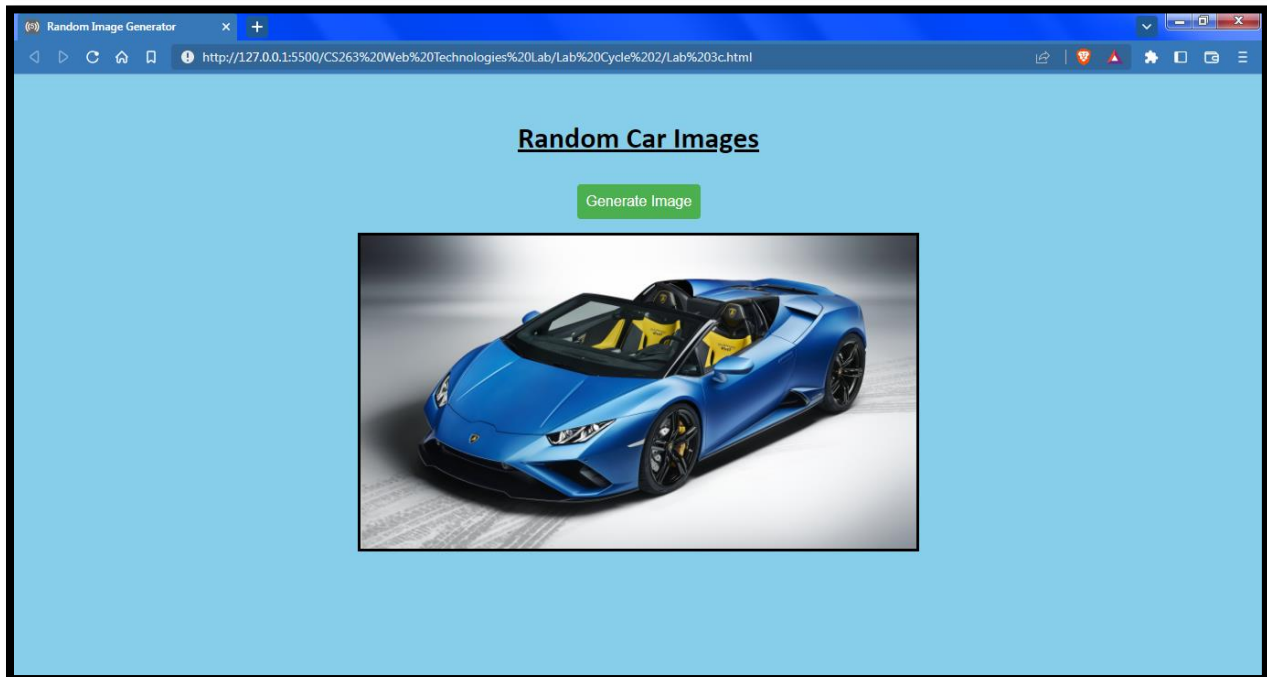
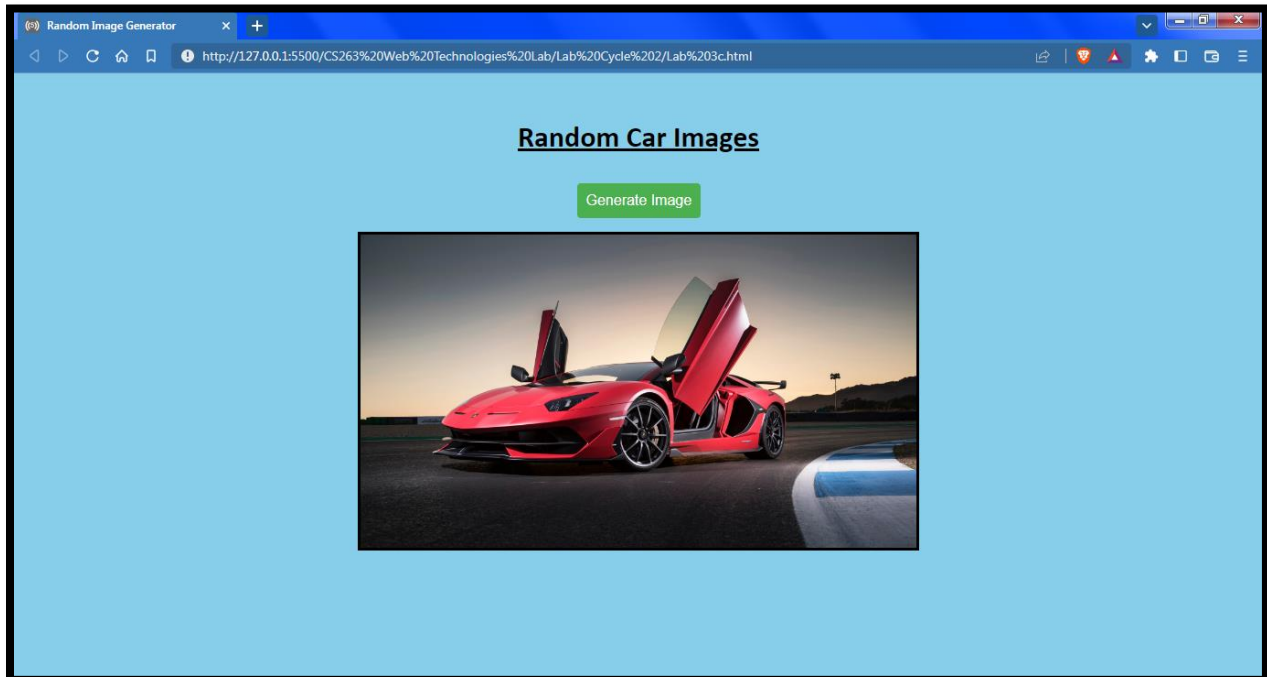
Enter the Base:

Enter the Power:

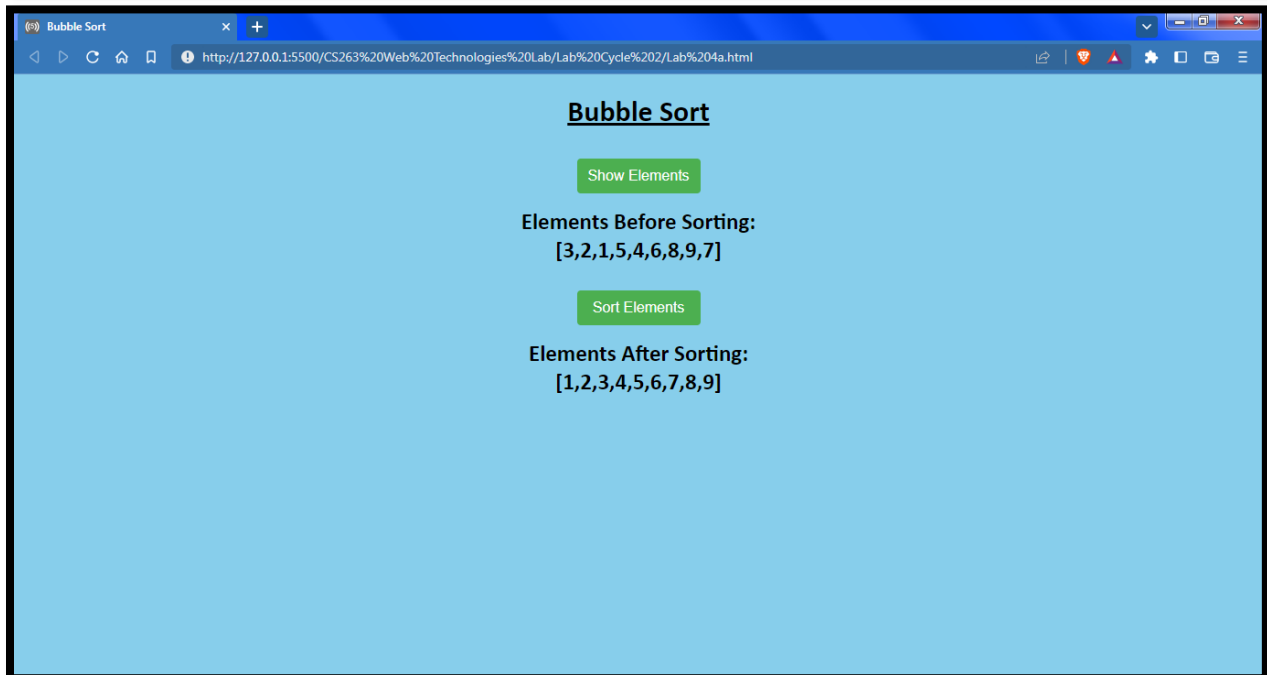
SUBMIT

The Expression: 2 ** 10 = 1024

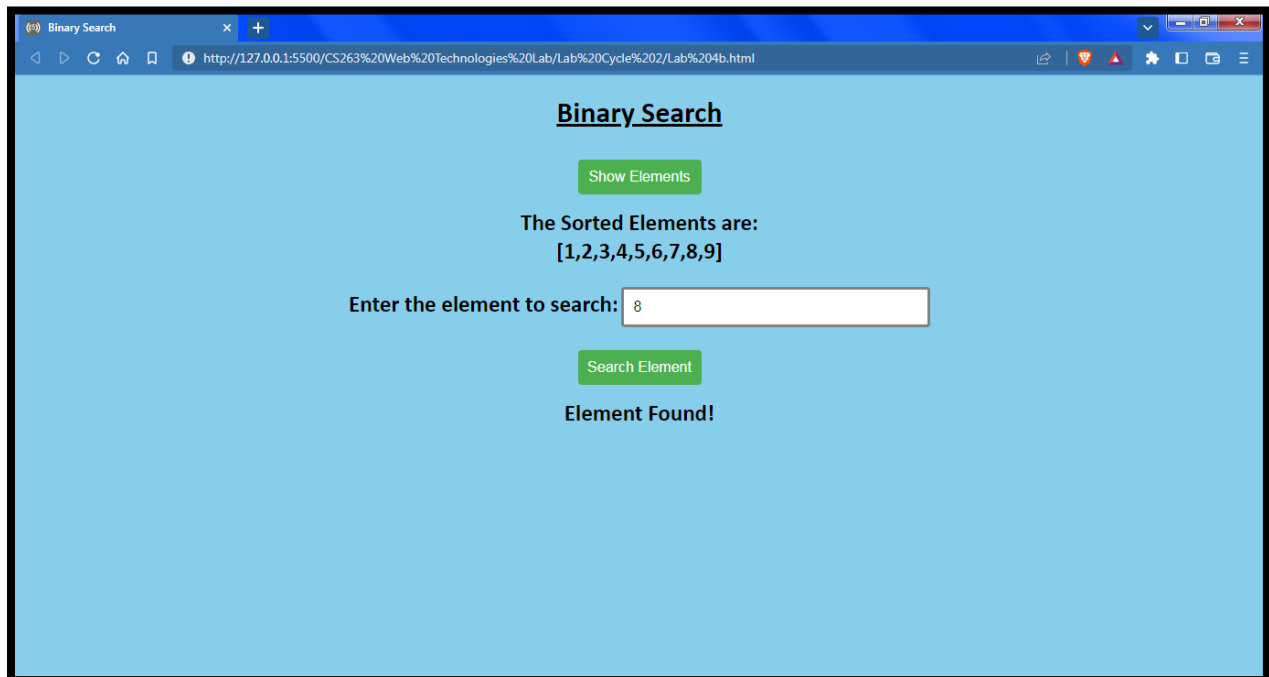
Program 3(c):



Program 4(a):



Program 4(b):



Binary Search

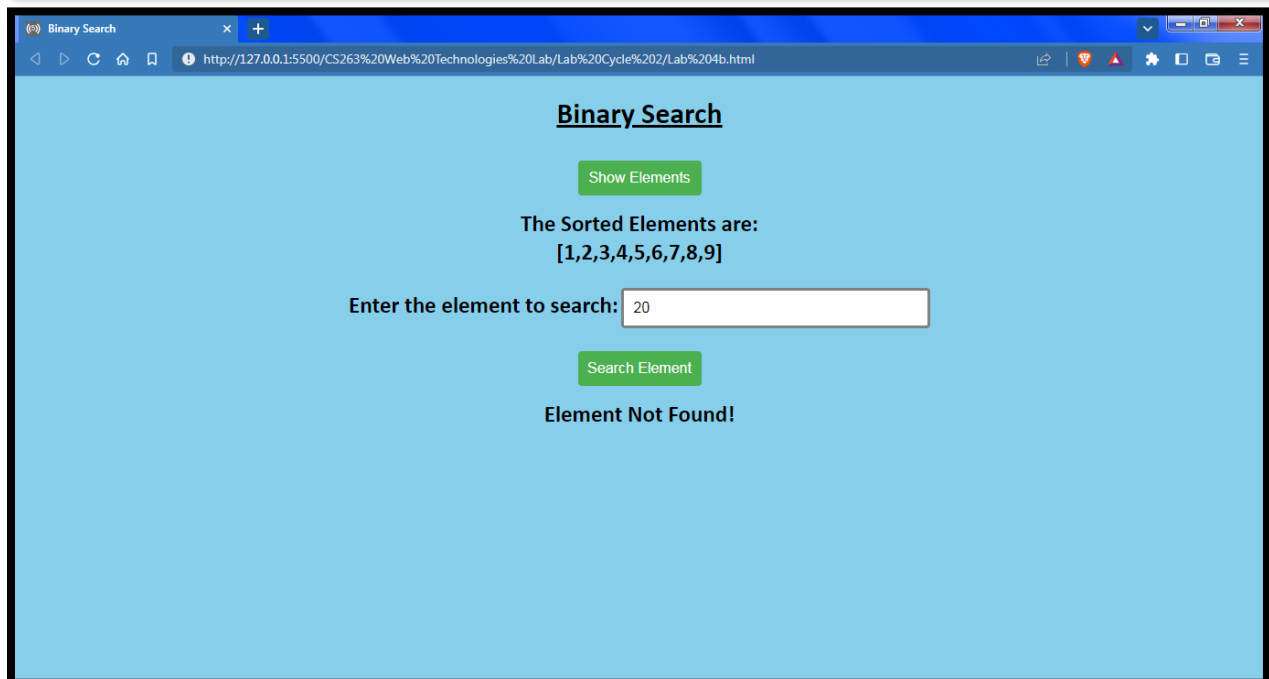
Show Elements

The Sorted Elements are:
[1,2,3,4,5,6,7,8,9]

Enter the element to search: 8

Search Element

Element Found!



Binary Search

Show Elements

The Sorted Elements are:
[1,2,3,4,5,6,7,8,9]

Enter the element to search: 20

Search Element

Element Not Found!

Program 4(c):

The screenshot shows a web browser window with the title 'Matrix Addition and Multiplication'. The address bar shows the URL 'http://127.0.0.1:5500/CS263%20Web%20Technologies%20Lab/Lab%20Cycle%202/Lab%204c.html'. The main content area has a light blue background and contains the following elements:

- A green button labeled 'Show Matrices'.
- The text 'Matrix 1:' followed by a 3x3 matrix:

1	2	3
4	5	6
7	8	9
- The text 'Matrix 2:' followed by a 3x3 matrix:

10	11	12
13	14	15
16	17	18
- A green button labeled 'ADD'.
- The text 'Matrix 1 + Matrix 2:' followed by a 3x3 matrix:

11	13	15
17	19	21
23	25	27
- A green button labeled 'MULTIPLY'.
- The text 'Matrix 1 * Matrix 2:' followed by a 3x3 matrix:

30	78	144
132	210	306
252	360	486