S.N.	Program Title	Submission Date	Signature	Remarks
1.	Write a PHP script to print the first 10 even numbers using a while loop.	2025/07/24		
2.	Create a program to print a multiplication table of a number using for loop.			
3.	Write a script that uses do...while loop to calculate the factorial of a number.			
4.	Use a loop to calculate the sum of digits of a given number in PHP.			
5.	Create a pyramid pattern using nested for loops in PHP.			
6.	Write a PHP program to reverse a number using a loop.			
7.	Display the Fibonacci series up to n terms using a for loop.			
8.	Create a program that finds all prime numbers between 1 and 100 using a loop.			
9.	Write a PHP script to find the largest number in an array using foreach loop.			
10.	Use a loop to count the number of vowels in a string.			
11.	Write a PHP function to check whether a number is even or odd.	2025/07/24		
12.	Create a function that accepts a string and returns it in reverse order.			
13.	Write a function that takes an array of numbers and returns the average.			
14.	Create a function to check whether a string is palindrome or not.			
15.	Write a function to count the number of words in a given sentence.			
16.	Build a function that converts temperature from Celsius to Fahrenheit.			
17.	Write a recursive function to calculate the factorial of a number.			
18.	Create a user-defined function to check whether a year is a leap year.			
19.	Write a function that calculates the sum of an array using foreach.			
20.	Create a function that returns the nth term of the Fibonacci sequence using recursion.			

S.N.	Program Title	Submission Date	Signature	Remarks
21.	To find the second largest number in a numeric array.	2025/07/24		
22.	Create a PHP function that reverses a numeric array without using built-in functions like array_reverse().			
23.	To calculate the average of elements in a numeric array.			
24.	Merge two numeric arrays and remove duplicate values without using array_unique().			
25.	To sort an array in descending order manually (without rsort()).			
26.	Accept five numbers from the user in a numeric array and display only the prime numbers.			
27.	Rotate a numeric array to the left by two positions. For example. [1,2,3,4,5] => [3,4,5,1,2].			
28.	To store student names as keys and their scores as values. Find the student with the highest score.			
29.	Create an associative array of countries and their capitals. Display them alphabetically by country name.			
30.	Create an associative array with product names as keys and prices as values. Apply a 10% discount to all products and print updated prices.			
31.	To search a value in an associative array and display the corresponding key.	2025/07/24		
32.	Store employee names as keys and departments as values. Count how many employees are in each department.			
33.	Store user name and ages. Display users who are above 18 years.			
34.	Create a 2D array to store marks of 5 students in 3 subjects. Calculate total and average for each student.			
35.	Represent an inventory system using a multidimensional array (product name, quantity, price). Print stock value of each product.			
36.	Construct a multidimensional array to represent a monthly calendar. Display all dates of Sundays in the month.			
37.	Store employee records (ID, Name, Department) and display details of employees in the "Sales" department.			
38.	Create a library record system where each book has title, author and available copies. Find books with less than 2 copies.			
39.	To transpose a 3x3 matrix stored in a multidimensional array.			
40.	Build a timetable array for a class. Each day has subject scheduled. Print the timetable for Wednesday.			

National College of Computer Studies

Paknajol, Kathmandu

Lab Report No. 1

Web Technology II

Submitted by:

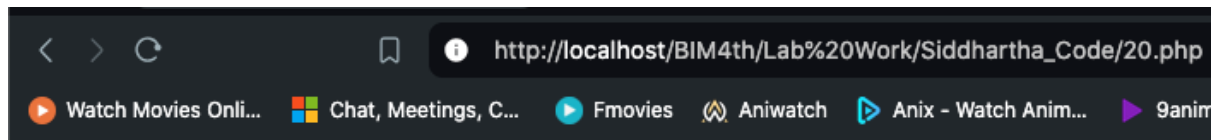Name: Siddhartha Shakya

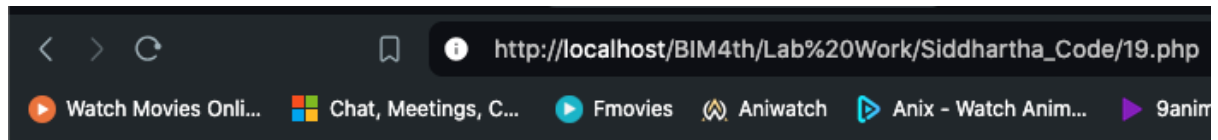Program: BIM

Roll no: 19

Section: B

Submitted to:

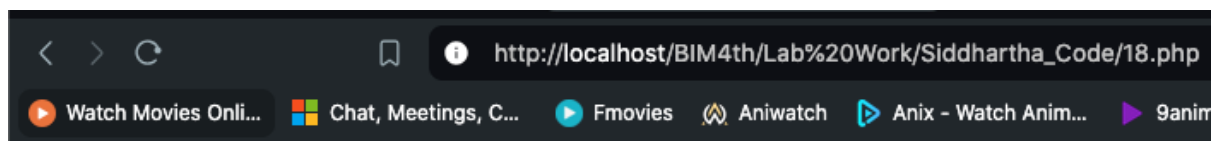Radha Krishna Gajurel
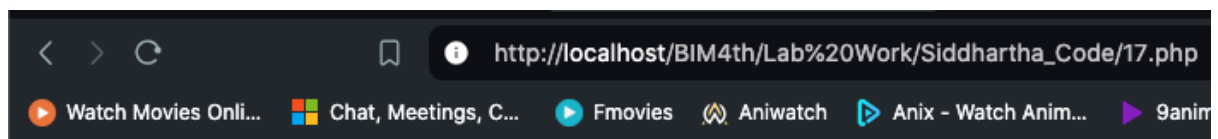
Shrija Shrestha

Date of submission: 2025/07/24
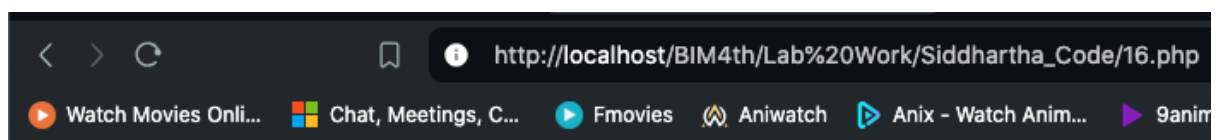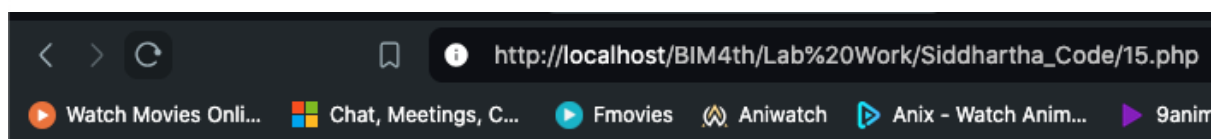
5 th term of the fibonacci series: 3
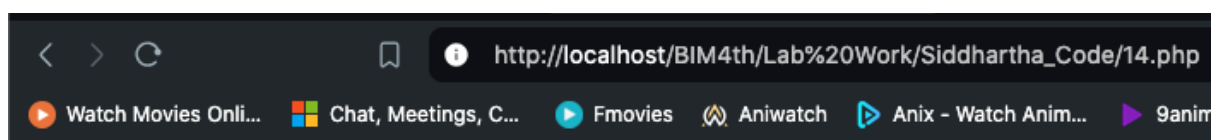
Sum of all elements of array: 15
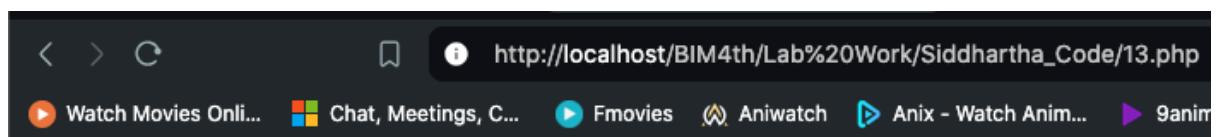
2004 is a leap year

Factorial of 6: 720

52 Celsius to Fahrenheit: 125.6

Number of words in ' I am sid ': 3

mom is palindrome

The average of values in the array: 3

Prime numbers in the array:
1
2
3
5

Array in descending order:
5
4
3
2
1
0

After merging and removing duplicate:
1
2
3
4
5
6
8
9
10

Average of elements in the array: 3

Reversed array:
5
4
3
2
1

The second largest element in the array: 212

Stock value of Fan: Rs. 100000
Stock value of Mobile: Rs. 450000
Stock value of Laptop: Rs. 800000
Stock value of Fridge: Rs. 175000

Users who are above 18 years:
Ram => 18
Shyam => 20
Gopal => 23

Employees in Production department: 2
Employees in Marketing department: 3
Employees in Accounting department: 1

Amit's wife is Deepika (key)

Updated price after discount:
Fan => Rs 1800
Mobile => Rs 18000
Computer => Rs 72000
Helmet => Rs 4950
Shoes => Rs 4050

Student with the highest score: Hari with score: 95

After rotation to the left by two position: 3 4 5 1 2

Timetable for Wednesday:
Subject: DBMS, Time: 11-12
Subject: OS, Time: 12-1
Subject: Cost Accounting, Time: 1:30-2:30
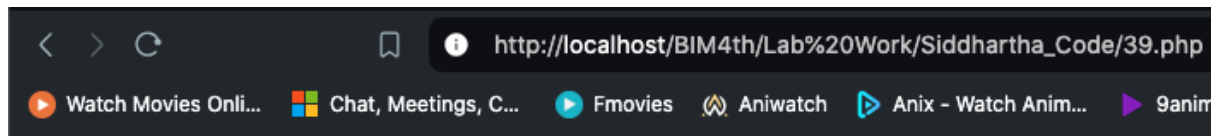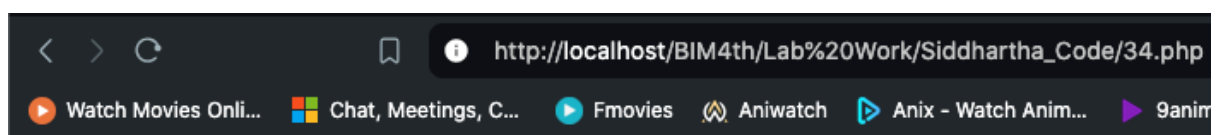
Transposed matrix:
0 3 6
1 4 7
2 5 8
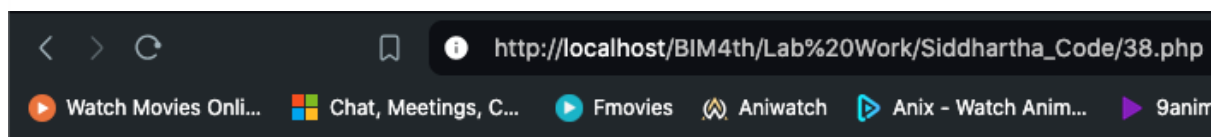
Books with less than 2 copies:
Title: The Silent Patient, Author: Alex Michaelides
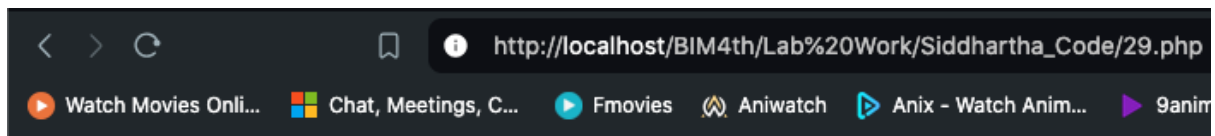Title: Ikigai, Author: Hector Garcia
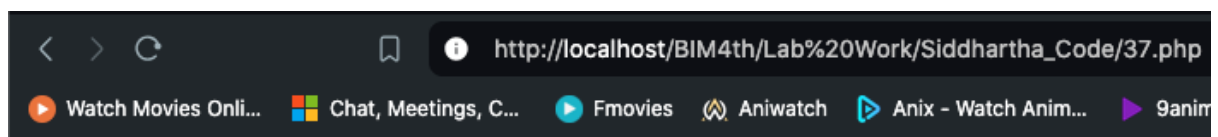
Details of employees in the sales department:
ID: 101, Name: Ram
ID: 104, Name: Shyam
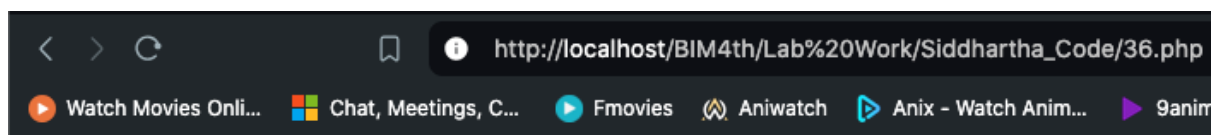
All dates of Sundays in the month of Baisakh 2081:
2 9 16 23 30

For Ram:
Total marks: 121
Average: 40.33
For Shyam:
Total marks: 214
Average: 71.33
For Gopal:
Total marks: 235
Average: 78.33
For Hari:
Total marks: 235
Average: 78.33
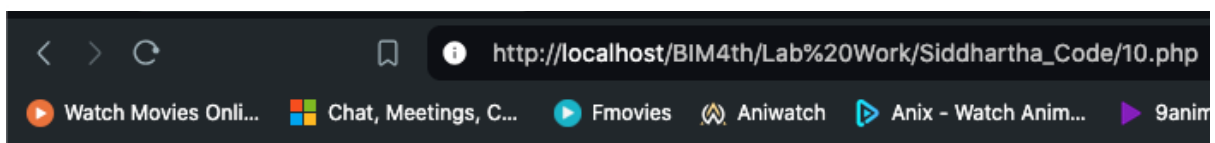**For Sita:**
Total marks: 224
Average: 74.67

Sorted in alphabetical order by country name:
Country: France, Capital:Paris
Country: India, Capital:New Delhi
Country: Japan, Capital:Tokyo
Country: Nepal, Capital:Kathmandu
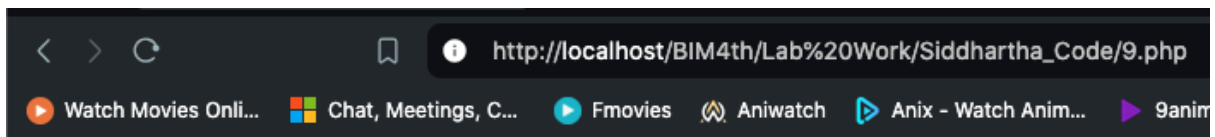Country: United States, Capital:Washington DC
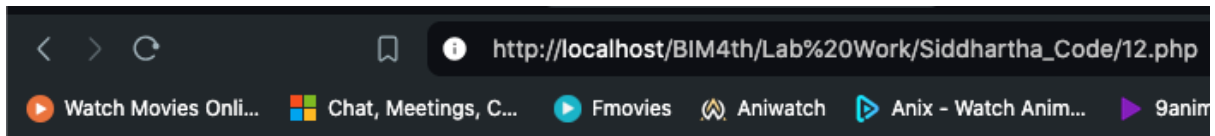
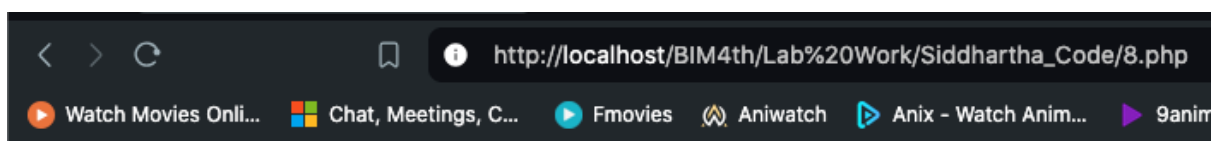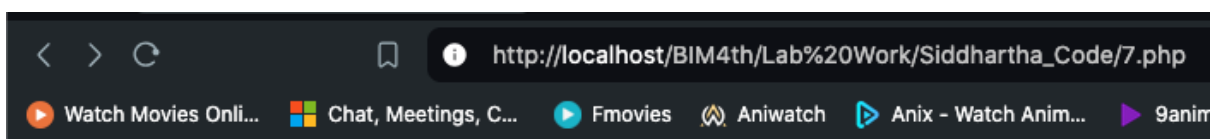The reverse of 'Siddhartha': ahtrahddiS
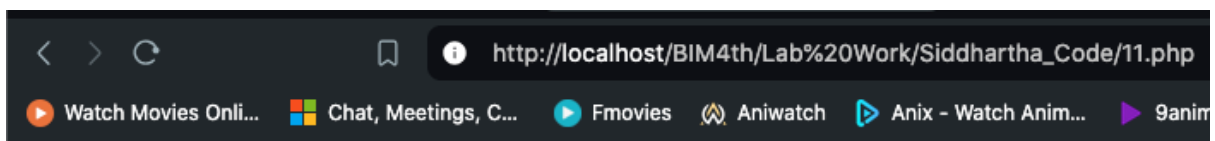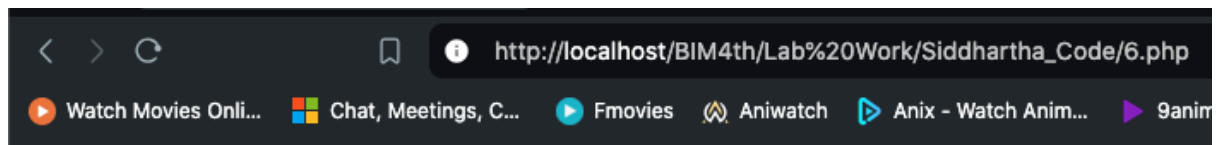
52 is even

Number of vowels in the string: I am siddhartha = 5

The largest number in the array: 3492
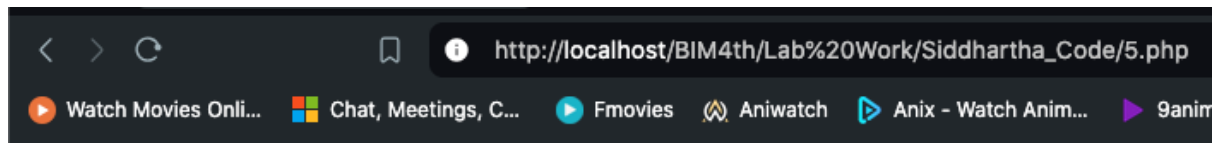
Prime numbers between 1 and 100:
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97
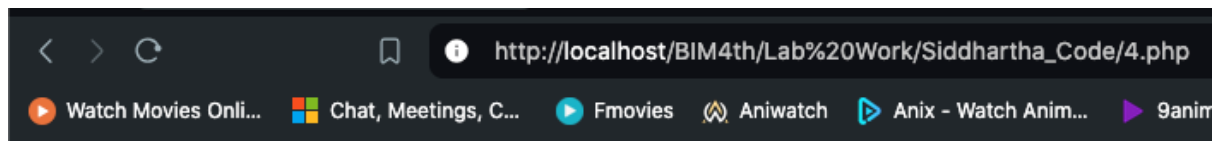
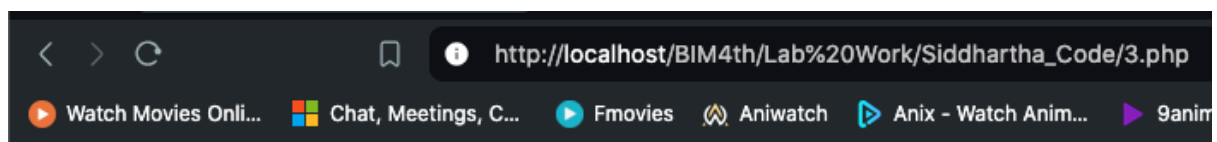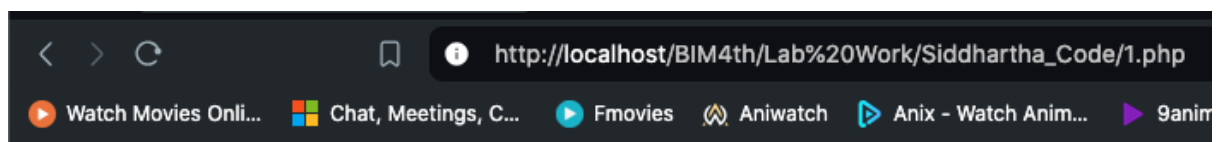Fibonacci series upto 5 terms:
0
1
2
3
5

Reverse of 1234: 4321

```
    *
   * *
  * * *
 * * * *
* * * * *
```

The sum of digits of 12345 = 15
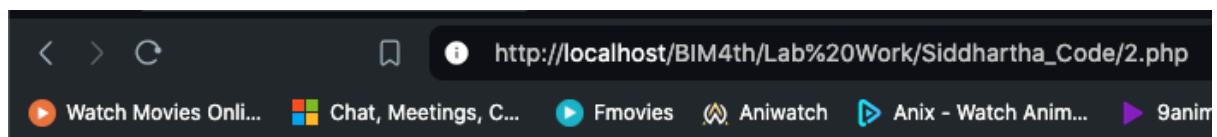
Factorial of 6 = 720

First 10 even numbers:
0
2
4
6
8
10
12
14
16
18

Multiplication table of 5:
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50