Vietnamese-German University

Programming 1 - 61CSE103
Assignment 2
Friday
November 7, 2025

The lecture notes are allowed during the assignemt. Student needs to comment in detail for all C code.

Question 1: (10 points)

Write a C program to find the maximum and minimum of 4 input integer numbers. Then, check whether these maximum and minimun number are prime number or not ***using function***.

Requirement:

- The 4 integer number inputed by user;
- Show the maximum number, minimum number and then check prime number or not.

Question 2: (10 points)

Write a program in C to find the sum of the series 1!/1 + 2!/2 + 3!/3 + 4!/4 + 5!/5 +…+ n!/n where n is an inputted integer by user using the ***factorial function***.

Question 3: (10 points)

Write a C Program to Convert a Given Number of Days in terms of Years, Weeks & Days (assume that 365 days per year) ***using function***.

Question 4: (15 points)

Write a C Program to Convert the given Binary Number into Decimal and then convert the output binary again to decimal number ***using function***.

Question 5: (10 points)

Write a C program to calculate sum & average of an integer array with N elements?

Question 7: (15 points)

Write a C program to print the frequency of the total points (sum of two face) when the user rolls two dices by 5000 times.

Question 8: (15 points)

Write a C program to sort elements of an integer array in ascending and descending order using bubble sort and selection sort algorithms.

Question 9: (15 points)

Write a program in C to find the sum of the right diagonals of a matrix.

Input the size of the square matrix : 2
Input elements in the first matrix :
element - [0],[0] : 1
element - [0],[1] : 2
element - [1],[0] : 3
element - [1],[1] : 4
Expected Output :
The matrix is :
1 2
3 4
Addition of the right Diagonal elements is :5

End