

World University of Bangladesh (WUB)

Department of Computer Science and Engineering

Lab Report; Course code: CSE-203

Dear students, it is time for you to submit your **Lab Report** for the course **Introduction to Programming Lab (CSE 203)**. In the Lab Report you have to provide the solution of all the problem statements given below. Submit the assignment in a PDF file. Write down the problem statement on top and then the solution (code) below the problem statement.

1. Write a C program to print your university's name on screen
2. Write a C program to print your name, date of birth. and mobile numbers on separate line.
3. Write a C program to perform addition, subtraction, multiplication and division of two integer numbers, respectively 2 and 6 and show the result on the screen.
4. Write a C program to input temperature in Celsius and convert to Fahrenheit.
5. Write a C program to perform addition, subtraction, multiplication and division of two integer numbers, where the two integers are provided by user on runtime and show the result on the screen.
6. Write a C program to find out the average of 3 integers numbers where the three integers are provided by user on runtime and show the result on the screen.
7. Write a C program to input number of days from user and convert it to years, weeks and days. Receive the input from user on runtime.
8. Write a C program to find maximum between three numbers using nested if..else.
9. Write a C program to check whether a number is divisible by 5 and 11 or not using if else. Receive the number as input from user.
10. Write a C Program to input a number from user and check whether the given number is even or odd.
11. Write a C Program to input a character from user and check whether it is vowel or consonant.
12. If an employee's salary is input through the keyboard write a program to find his gross salary as per the following company policy.
 1. If basic salary is less than Taka 25000, then House rent Allowance is 10% of basic salary and Dearness allowance is 70% of basic salary.
 2. If basic salary is either equal to or above Taka 25000 but less than Taka 50000 then House rent Allowance is 15% and Dearness allowance is 80% of basic salary.
 3. If basic salary is more than Taka 50000, then House rent Allowance is 20% of basic salary and Dearness allowance is 90% of basic salary. The gross salary is the sum of Basic salary, House rent Allowance and Dearness allowance.
13. A library charges a fine for every book returned late. For first 5 days the fine is 500 taka, for 7-10 days fine is 1000 taka and above 10 days fine is 1500 taka. If you do not return the book within 30 days of borrowing it, your membership will be cancelled. Write a C program to accept the number of days the member is late to return the book and display the fine or the appropriate message.
14. Write a program using for loop to find the sum of first n natural numbers where n is entered by user. Note: 1,2,3... are called natural numbers.

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15. Write a C program using for loop to find all the odd numbers from 1 to n where n is entered by user.
16. Write a C program to input a number from user and print multiplication table of the given number using for loop.
17. Write a C program to input number from user and check number is palindrome or not using while loop.
18. Write a C program to input a number and calculate its factorial using for loop.
19. Write a C program using while loop to input decimal number from user and convert to binary number system.
20. Write a C program using the concept of loop to input number from user and check whether number is Strong number or not
21. Write a C Program to calculate the Average of an array elements where the elements are received as input.
22. Write a program in C to read N number of values in an array and display it in reverse order.
23. Write a program in C so that the program will read a one-dimensional array and find out the largest element present in the array. Receive the array elements as input from user.
24. Write a C Program to sort the Array elements in an ascending order. Receive the array elements as input from user.
25. Write a C Program to receive N number of names as input from user and then sort the Names in an Alphabetical Order.

Submission Deadline: 10 April, 2023