

الذي علم بالقلم. علم الانسان ما لم يعلم.

National University of Computer and Emerging Sciences

DEPARMENT OF COMPUTER SCIENCE

Object Oriented Programming Lab-04

HOME WORK/TASKS (LAB-04)

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(Instructor)

Lab 04 Content

 \square Arrays (I-D, 2-D) ☐ References ☐ Pointers ☐ Function(call by value, call by reference) ☐ C++ Strings

Student Alerts

□ No late submissions will be entertained. ☐ All submissions should be made on Google Class Room. ☐ Emailed assignment will be marked as 0. □ An individual/group may be assigned a straight-forward 0 if the submitted assessed Home work/Task is copied/cheated from another individual/group. ☐ After due date, there will be an Oral Viva. ☐ Please upload a PDF/MS word file including all tasks code and output respectively.

Lab 04 Home Work/Task(Arrays)

- 1. Write a program in C ++ to copy the elements of one array into another array?
- 2. Write a program in C ++ to count a total number of duplicate elements in an array?
- 3. Write a program in C ++ to print all unique elements in an array
- 4. Write a program in C ++ to merge two arrays of same size sorted in descending order.

Lab 04 Home Work/Task(Arrays)

- 5. Write a program in C ++ to count the frequency of each element of an array.
- 6. Write a program in C ++ to find the maximum and minimum element in an array.
- 7. Write a program in C ++ to separate odd and even integers in separate arrays
- 8. Write a program in C ++ to sort elements of array in ascending order.
- 9. Write a program in C ++ to delete an element at desired position from an array?
- 10. Write a program in C ++ to find the second smallest element in an array.?
- 11. Write a program in C ++ for addition of two Matrices of same size?
- 12. Write a program in C ++ for multiplication of two square Matrices?
- 13. Write a program in C ++ to find the pivot element of a sorted and rotated array using binary search?

Lab 04 Home Work/Task (Pointers)

- 14. Write a program in C ++ to add two numbers using pointers
- 15. Write a program in C ++ to add numbers using call by reference
- 16. Write a program in C ++ to find the maximum number between two numbers using a pointer.
- 17. Write a program in C ++ to find the factorial of a given number using pointers
- 18. Write a program in C ++ to count the number of vowels and consonants in a string using a pointer
- 19. Write a program in C ++ to sort an array using Pointer.
- 20. Write a program in C ++ to show how a function returning pointer
- 21. Write a program in C ++ to print a string in reverse using a pointer

Lab 04 Home Work/Task (String)

- 23. Write a program in C ++ to find the length of a string without using library function?
- 24. Write a program in C ++ to count total number of alphabets, digits and special characters in a string?
- 25. Write a program in C ++ to count total number of vowel or consonant in a string?
- 26. Write a program in C ++ to check whether a letter is uppercase or not?

THANKS ©

