

Programming Fundamentals Section-A+B

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1. Write a program that takes input from the user the salaries of the people working in the software house, and calculate who gets the maximum salary and what is the average salary of that particular software house? Maximum number of employees in the software house can be 100. For each calculation use separate function that will calculate and return the desired value.
Now extend program in question 1 that takes the names of the employees of the software house and prints the name of the person who gets the maximum and minimum salary. [USE ARRAYS]
2. Enter a word and check if it is palindrome or not. Length may vary up to 100. User can input 99 or less characters, your program should determine the length first and then check whether it is palindrome or not. [Use character arrays and explore strlen() function]
3. Write a program that takes input array (up to 20 characters) sort the array in ascending order.
4. Write a program to insert an element in a sorted integer array.
5. Take input an array of length 10 from user and separate the elements of the array in two separate arrays EVEN and ODD. i.e. All even numbers in Even array and all Odd numbers in Odd array. In the end there must be **only one** function that will be called to print the contents of these Even and Odd arrays.
6. Make a function 'FUN1' that takes array name as argument and asks for the index as input and then passes this information to another function 'FUN2'. FUN2 should take input integer X and rotate the elements of array beyond that point (index) X times. For example,
[1,2,3,4,5], index= 2, X=1. The resultant array should be [1,2,5,3,4]
[1,2,3,4,5], index= 1, X=2. The resultant array should be [1,4,5,2,3]

Guidelines

- A single violation of guideline will lead to Zero mark in your assignment. You will have maximum marks if you have done the entire task.
- Only ".doc (or) .docx" file should be uploaded on SLATE, Assignment would not be accepted via email, Facebook or USB flash drive etc.
- Do not zip your assignment it should be uploaded as individual file in following format. "RollNo_Assignment_No.doc".
- Paste all the required outputs in the single .doc file.
- Deadlines should be kept in mind no extension in assignment dates
- This is an individual assignment. **PLAGARISM IS NOT ACCEPTABLE!**
- Follow the instructions as it is, otherwise your assignment would not be accepted at all.