SVCE

RISHABANATH ECE <2018ece0802@svce.ac.in>

Fwd: Task on Functions

1 message

Rishabanath K <rishabanath@gmail.com> Tue, Aug 30, 2022 at 2:43 PM
To: 2018ece0802@svce.ac.in

---------- Forwarded message ---------
From: **Umamageswari D** <umamageswari.d@zohocorp.com>
Date: Tue, Aug 30, 2022, 2:31 PM
Subject: Re: Task on Functions
To: rishabanath <rishabanath@gmail.com>, sanjayaravinth26 <sanjayaravinth26@gmail.com>, stormsandy91 <stormsandy91@gmail.com>, ruthrafirey <ruthrafirey@gmail.com>, rrvignesh2001 <rrvignesh2001@gmail.com>

Arrays, Structures and Unions

Task-1

1. Create an array that contains "yourname" where add 1 to the content of odd-numbered locations and subtract 1 from the even-numbered locations.
2. Create a Sparse matrix and find out the locations where 1's are there.
3. Write a program to illustrate padding in structure with an example.
4. Write a program to illustrate packing in structure with an example.
5. Create an array that contains any string, where remove all occurrences of any special characters and spaces and find the length of the string w/o using strlen().
6. Create an adjacency matrix, where '1' represents the edges of a graph from i -> j, also use i != j as a constraint and find the number of incoming and out going edges of each vertex.
7. Program to evaluate the balanced parenthesis using stack.
8. Program to evaluate an arithmetic expression using stack.
9. Program to implement Queue.
10. Program to create a binary search tree using arrays.

Task-2

1. Add two distances and also convert inches into feet and vice-versa using structure (in inch-feet)
2. Build the basic management application by your own choice using functions.
3. Add two complex numbers using structure and functions to read, add and write the data.
4. Create a structure called Date and calculate the difference between the two dates.
5. Create a structure called Time and convert the time into hours or minutes or seconds.
6. Write a c program to read and print an employee’s details like name, employee id, salary using structure.
7. Create a structure student having data members to store roll number, name of student, name of three subjects, max marks and minimum marks. Declare a structure variable of student provide facilities to input data in data member and display result of student.
8. Create a user defined enum type for days of week and display all.
9. C program to declare, initialize the data and display any union datatype.

Strings(Learn by yourself)

Task 3

1. Write a c program to perform string manipulation by using the library function.
2. Write a program to check whether the entered string is palindrome or not.
3. Concatenate two strings using arrays.
4. Count the total number of words in a string.
5. C program to count occurrences of a character in a string.

---- On Fri, 26 Aug 2022 17:05:54 +0530 **Umamageswari D <umamageswari.d@zohocorp.com>** wrote ---

Day-2
Functions
Task-1

1. Program to find the sum of n numbers using recursive call.
2. Program to reverse a string using a stack.
3. Program to swap two numbers using pass by address and pass by value.
4. Write a program to find the power of a number X^n using call by address and call by value.
5. Calculate the volume through inline function.
6. Write a program to find factorial of a number using recursion.
7. Write a C program to calculate power using recursion.
8. Write a program that uses macros to find the maximum and minimum of three numbers.
9. Write a C program that uses a menu showing all the operations done using macros where the operations are

    a. Find the maximum of two numbers using ternary operator.
    b. Find the Cube of a numbers where use Square of a number also. Ex: Square(x) * x;
    c. Find the Power of a number X^n.
    d. Find Product of two numbers without using * operator.

Task-2

1. Recursion to print Fibonacci series up to 20.
2. C program to count 1s in a number (get input from user)..
3. Program to print all uppercase alphabets from 'A' to 'Z' using recursion.
4. Reverse a numbers using a recursion

Add three values without using addition operator(+)