DSA Lab 01: Building the Basics

O1. Building the Basics

Lab No: 01 Lab Code: 17ECSP201 Semester: III Batch: D2 Date: 08 Aug, 2018 Theme: DSA Marathon – Catch Me if You Can Objective: Operating and Enhancing knowledge on Foundational Concepts of C Below listed are tasks which you will carry out in a team of three. The end time will be decided by the professor (Yayy). Look out! Your scores are getting updated on the spreadsheet scoreboard. Task o1: You are given with a file named 'negate_sum.c'. It has some errors in it. Debug and correct the program. [Marks: 10] Task 02: Write a code which will generate the following warning message: warning: return type of 'main' is not 'int' [Marks: 10] Task o3: Yes or No? Call me and answer this question with 'Yes' or 'No'. "_____, I don't like this faculty who teaches in DSA Lab" [Marks: 10] Task o4: Give one real time example of 'do-while' and 'while' [Marks: 10] Task o5: Write a program which would generate the output as in 5.exe [Marks: 20]

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Task o6:

Write a program which would generate the output as in 6.exe [Marks: 20]

Task 07:

Write a program which would generate the output as in 7.exe [Marks: 20]

Task o8:

Identify three C keywords in the word maze below: [Marks: 30]

m	a	n	g	o	a	p	p	1	e	o	n	c	e	u
P	o	n	a	t	<u>i</u>	m	e	<u>i</u>	w	h	<u>i</u>	l	e	n
m	g	o	f	l	d	p	u	m	a	Ъ	a	g	s	r
u	d	d	o	d	o	C	t	o	r	<u>i</u>	s	g	o	o
m	m	y	r	c	c	d	o	n	a	1	d	s	d	d
b	h	e	1	P	r	C	h	e	n	n	a	<u>i</u>	x	p
a	e	w	w	k	k	g	e	t	p	a	r	t	y	s
<u>i</u> .	y	m	y	o	u	f	r	<u>i</u>	e	d	e	g	g	r
z	h	c	t	<u>i</u>	w	s	c	a	u	u	d	<u>i</u> .	<u>i</u> .	s
h	a	r	r	y	p	o	t	t	e	r	z	o	k	e
g	o	o	g	1	e	f	a	c	e	Ъ	o	o	k	s

Task og:

Write a program to display Multiplication Table using for(), while() and do while(). Accept a number from the user within the range 1 to 100 and display its multiplication table from:

- 1 to 10 using for()
- 11 to 20 using while() and
- 21 to 30 using do while()

Example: If input number is 3, output format should be like:

3X1 = 3

3 X 2 = 6

3X3 = 9

3 X 4 = 12 etc [Marks: 40]

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Task 10:

Write a C program to find the missing number from 0 to 9. In the main(), statically initialize the integer array with numbers from 0 to 9, by missing out a number.

Write a function called number_check(), which accepts array as input and finds out which is the missing number from 0 to 9. Print the number in the function itself. Handle all the required conditions appropriately.

[Marks: 40]

** May The Force Be With You **

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