

National University of Computer & Emerging Sciences, Karachi Fall-2020 (CS-Department)



Mid-term Lab Exam (B)

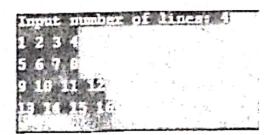
Course Code: EL229	Course Name: Computer Organ	nization & Assembly Lang Lab			
Instructor Name: Amin Sadiq	H.				
Student ID:	Section:	Section:			
Date: November 05, 2020	Time: 120 minu	Time: 120 minutes (1:15 PM: 3:15 PM)			
 In case of any ambiguity contradict any statement Task 1: 	am ill lead to F-GRADE directly as y, you may make assumption. B	ut your assumption should not			
1, 5, 9, 13, 17					
b) Declare a BYTE array of size 10 having different values of your own choice. Write a program to calculate sum of squares of all elements of that array and store it in the variable having size of 16 bit. Task 2 You are hired as an assembly language developer in the multinational company. On the first day of your job, your boss wants to test you on the assembly language. He wants you to perform Armstrong of the given number i.e. 153. He restrict you not to use mul instruction for this program rather than you can use addition and subtraction for this program. He also give you a hint that this 153 is already broken down into three variable like var1=1, var2=5 and var3=3.					
Task 3		(3)			
Consider the following data decl .data myArray DD 1502,232,148,1	123,649,129 find out by implementing it then				
Symbols	Address	Value			
The second secon					

Address	Value
	The second section is the second section of the section of the section of the second section of the section of t
and the second s	references and the second seco
	The state of the s
and the state of t	
	Address

		/E\
tack 6:		[5]
acv h'		

CX=____CL=___CH=___ DX=___DL=__DH=___

Using a nested loop create a program for the given output which is attached below.



Use 2 different arrays to move these values in arrays like first two lines to be move in first array, last two line to be move in second array & so on. Use of type, lengthof and sizeof operation is mandatory.