1	Camlin Page
1	Assignment - 5
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1	Subject: Programming and Problem Solving
1	Trimester: 1
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ł	Roll no: 20205 3 Beatch: A 3
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	Aim Write a more driven program to perform
	basic operations such as addition and
	subtraction of two matrices
	Objective: 2. To understand arrays in C
	2. To Jearn and understand two
	dimensional arrays and operation on
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Ì	Tanga
	Theory:
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	1. Arrays
	$\frac{20}{20}$
	-> Arrays are a kind of data structure that
	can store a fixed size sequential collection
	of elements of the same type.
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	20s Types of Armys
	-7 1-D Arrays, 2-D arrays.
ļ	
	1-D Arrays have I now of duta, 2-D Arrays have
	multiple nows and columns.
-	

3	Declaration of 1-D array
	Datatype Arrayname [No of variables];
4	Declaration of 2-0 array
	Datatype Arrayname [No of nows] [No of nows];
50	Initialization of Arrays
15	1-D array: Int balance [5] = {2000,2000,2000} Data Array name Type No of Initialized variables values
	2-D arrays:
	Int a[3][4] = {0,1,2,3,4,5,6,7,8,4,10,113
20	Stored de \$1,3/4
	Stored as -> [0,1,2,3] 4,5,6,7
25	8,9,10,11].

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1	Algorithm
1	10
	Step 2: Start
	Step 2 Input no of rows and column of matrix 2 (10)
	Step 3: Enter values of matrix (I/O)
	Steps Display matrix 2 (110)
	15 Step 5: Input no of rous and wlumps of matrix 2 []
	Step6: Enter values of matrix (I/U)
	Sten7: Display matrix 2 [1] [0]
	Step 8: Trout arithmetic operation (IIV)
	Step 9: If '1' (Dexision)
	Add mactring 1 and 2 (11000)
	Display final matrix (I10)
	(La 4 Clco ()' - (Descision)
	Subtract matrix 12 from 2 (Process)
	Subtract Mairine
	Display final matrix ([10]
2	Step 10 End

	Flow chart		Camlin Pa
		Start	Date /
- Alexander			
	Jan	put no of nows	
	an	d columns cot	
		matrix 1	
	Input	values of	
	mat	tripe 1	
- Committee - Comm	Displa	y matrix 1/	
and the same of th			4
	Input	no of rows /	
10	and a	olumns of	~*
	Mat	rix 2	
· · · · ·	/T +	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
~~~		dues of	in the site of the
	matri	2	
15	Mark of the state of	La Caja Ca	
- :~	Display m	nutrix 2/	
		Li Jan Al Hilliam	
	Enter	operation/	
~	1 1 1/25		
	46		1
~	1f	**************************************	production of the second
~	or No	No No	
	+	(2)	
_		or con	
05	Yes		
25	<u> </u>	Yes	
11	dd matrix	Subtract matrix	
	- and 2	2 from 1	,
	<u> </u>		
_	splay final	Display final	
	matrix /	matria /	
7-80			
		V	
		-) (End)	

1	Camlin Page Date 1 1
	Input:  Enter first matrix elements  1 2 3  L 2 3  Enter second matrix elements  1 2 3  1 2 3
	Output  Addition is 2 4 6 2 4 6
	Conclusion: Thus implemented the program to perform addition and subtraction of two matrices
	what are different types of arrays? How do we define them?
25	One dimensional or Linear arrays.  Only have I now of data  Two dimensional or matrix arrays  Has mxn array meaning m nows and
	n columns.

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Date	1, 49e

2.	How are Arrays initialized and procossed
<b>−</b> ⊃	1-D array initialize
5	Datatype Arrayname [variable - [varues to be put in Array]
	Processed
10	Arrayname va m val
	2-D array Initialize
	Datatype Arrayname [rows] [ (olumns] = [ Variables]
15	Processed
	0 1 2
	0   (0,0)   (0,1)   (0,2)   (0,n)
	$\frac{1}{2} \frac{1}{120} \frac{1}{1$
20	
	m [m,0] (m,1) [m,2] [m,n]
	VI CAR

Camlin Page How are elements accessed in 20 arrays 0,1 0,2 U, N 0,0 12,n 2,2