	Chapter 7 - Arrays	4	
	An Array is a contigous block of homogenous		,
	An array is a collection of	Similar, elemen	<u>us</u> _
RI	And the last the state of the s	imp	lus
	One variable => Capable of Sto	ary multiple vo	
13161	Syntax	similar or sa	me type of
	The syntax of declaring on Array	looks like this	:
130	The think it broakers in their al	- Lilly Dulk	
41	int marks [90]; => Integer area	y sva 40	
	char name [20]; > character as	cray or String	
	char name [20]; > Character as float percentile [90]; > float array		
	THEREIN AD 40	MITCHERATION	
thing !	The values can now be assigned t	o marks arra	<b>y</b>
	like this:	(00 pc m)	
	marks [-1-22: 5 0 -1	elast to	
See A	$\max\{o\} = 33; \qquad P = 1$	8 60 60 JA	<u> </u>
(110) and	marks [1] = 12;	Seneral Tours	
	Note: It is very important ito in	nk that the	arkau
	index starts with o	Lidi Halland	
1	Marks -> [7 6 21 3 91 3]	88. 89	
	0 1 2 3 4 5	88 89	
the	The Marker of the Money	The state of the s	
	Total = 90	elements un	<u>-</u>
			_
100	01020 0200 0200	•	-

	T ESTÉ	ELG	73
	Scanf ("%d", 2 more  print f ("%d", 2 more  Quick Quiz > Write  of five students in  them to the scree  Initialization of an P  There are many off  can be initialized.	y (an be accessed  rks[0]); => output  of the  a program to accessed  an array and  en.  Peray  her ways in which	using: rest value array cept marks print:
in the second	Arrays in memory  Consider this array  Int arr [3] = \( \frac{1}{2} \)  This will reserve  4 by ks for each in [  \[ \frac{1}{2} \]  62302 623	$\frac{2}{3} = \frac{1}{2} \text{ bytes in}$ $\frac{1}{3} = \frac{1}{3}$	r = 4 byks
. 1			

Yayl we under Stood pointer arithmetic

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Name of the least	
	Accessing Arrays using pointers Consider this array
	Accessing Arrays using portuges
9	Consider this array
	12/0/2/8/1
	7 3 3 4 4
	index 0 1 2 3
	ptr mill boint
	The ber boints to index o, per ++ will point to
	in the period of
	Index 1 & so on
	This way we can have an integer pointer
	This way we can have an integer pointer pointing to first element of the array like this:
	portoury
	int * ptx = 2 arr [o]; - or simply arr
	The state of the s
	ptx++; * ptx => will have 9 as its value
	o i to to the state of the stat
	Passing arrays to functions Arrays can be passed to the functions like this
	perays can be passed to the functions
	print Array (arr,n); => function call
y	Srint Horay ( a or, 1)
	Void print Array (int "i, int n); => function prototyte
Adimery	Void print Array (int i []); int n);
O VIIII III	an execution of a semination of the state of the semination of the
	Principle and the four oberations.
	Part of the second seco
Je J.	
1	
111	. Ille
186.	

Multidimensional Acrays An array can be of 2 dimensions A 2 dimensional array	dimension / 3 dimension / n
	1, 43, 7, 93, 11, 223 3;
We can access the element orr [0][0], arr [0]  Value=1 Value=4	ents of this array as [1] & 50 on
2-Darrays in Memory A 2d array like a 1-6 a Configuous memory block  arr[0][0] arr[0][1]	rray is stored in
1 4 7 9 87224 87228	d sway by taking input
from the user Write	a display function to is 2-d array in the Screen.