	By-								
	Tany Singh								
	Lecture Date:								
	Page No.								
And the second	A. LOVE								
	Java Programming -> Arrays								
0	Introduction to Array.								
米	An array is a group of like-typed variables								
	that are reffered to by a common name.								
	Arrays of any type can be created and may								
	have one or more dimensions. A specific element								
	in an array is accessed by its index.								
	" or "								
	I am an in a group of continous or related								
	An array is a group of continous or related								
	data êtems that share a common name								
	Syntax: - array-name [value];								
	Q								
	Example: - Salary [10];								
, sola	and the same of another some								
Sharman S.	· OR"								
EN AD CLASS CONTRACTOR									
	Access to the classic control of								
	Array: object that stores many values of								
	the same type.								
	* Element: One value in an array.								
	* length: Number of elements in an areay								
	· Index: Starts from 0 to access an								
	elements from an array.								
	Index > 0. 1 2 3 4 5 6 7 8 9								
	value 10 49 1-2 26 5 17 -6 84 723								
	vame 1 2 2 2 1 7 1 2 2 2 1 7 1 7 2 1								
10.04	=10'								
length	element 4 element								
	element 0 element 4 9								
	A - Paul - Mail - M								

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int [] numbers = new int [6];							
index 0 1 2 3 4 5							
value 0 0 0 0 0 0.							
My Minarally							
type [] name = { value, value}value};							
The state of the s							
int [] numbers = \(\frac{12.49,-2,26,5,17.3}{12.5} \) indéx 0 1 2 3 4 5 value 12 49 -2 26 5 17							
index 0 1 2 3 4 5							
value 12 49 -2 26 5 17							
The Art of							
Accessing elements							
name[index] // access name[index] = value; // modify							
name[index] = value; // modify							
Example:							
numbers [0] = 27;							
numbers [3] = -6;							
i care a sure a							
System. out. println (numbers [0]);							
if (numliers [3] <0)							
5							
system out printer ("Element 3 is -ve")-							
3							
andex 0 1 2 3 4 5 6 7 8 9							
Value 27 0 0 76 0 0 0 0 0 0							

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100	Arrays and for loop							
	Jeop							
*	fer like							
	for (int i=0; i<8; i++)							
AL COLOR	· ·							
	{ numbers [i] = 2 + i; 3							
	index 0 1 2 3 4 5 6 7 value 0 2 4 6 8 10 12 14							
	value 0 2 4 6/8 12/12/14							
	10 12 19							
0	Qut of a							
- 10	Out - of - Bounds							
**	Legal Indexes: b/w o and 40 accord							
4.M33	Legal Indexes: b/w 0 and the array length-1-							
tu.	morting any index outside -							
b.8	this stange will theow an							
	Reading or Writing any index outside this erange will theow an "Arrayandex Out of Bound Exception"							
	trample:							
Service Service	int [7] data - m							
	int [] data = new int[10];							
	System. out. println. [data [0]); //okay							
	1) The state of th							
-	Jack Jack Jack Jack							
	System. out. println (data [10]); // exception							
	(exception							
•	Array . to String.							
	4 Association of the state of t							
	Asray to string accepts an array as a parameter							
* C - 1	and returns a String representation of its							
	elements. 01234							
Mote mpo	int [] e - SD 2 4 1 e 2.							
Note boll	int $[]e = \{0, 2, 4, 6, 8, 3;$							
must have	e[1] = e[3] + e[4];							
Jac	system. out. println ("e-is" + Aspags. tostring(e))							
	0/P: e is [0,14,4,6,8]							

	Tany Singh (Dun)
	Tany Sigh Date: Page No.
	The Array Class
	· class driving in backage jays will has
7- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	· Class snay in package java will has methods for manipulating arrays:
* 100 00 00 00 00 00 00 00 00 00 00 00 00	arrays:
PT-10-NOT-17-PHILIPPE TAXABLE SAVES SAVES	Method Name Description
mensus de la companya	
	binacysearch (assay value) - search if the array
regulation in the foreign than the contracted two	the index of a given value is a souted andy
	copy of (array, length) - returns a new copy
	of an away
-	The same same as the same same same same same same same sam
and the same of th	equals (array 1, array 2) - returns true if the
	two arrays contain name elements in the
	same order.
	fill(array, value) - set every element to a given value
	to a given value
1.0	sost (array) - arranges the elements
	sort (array) arranges the elements into sorted order
	tosteing (array) - returns a string
5	sepesenting the array such as "[10, 30, -25,
	17)".
	Syntax: Arrays. method name (parameters).
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Two-dimensional Arrays										
* dn +	* In this, the first index selects 'Row'									
and the second inclex selects the										
'Column' within that " sow.										
			d)	aioual a	elau.					
r for creating two-dimensional array,										
same steps are to be followed as that of one - dimensional arrays.										
that of one - almensional arrays.										
Example:										
int myArray [][]; myArray = new int [3][4];										
	int	myArray	ر ۲ ۲ ۲	j T = 75.	.7 •					
	my	Assay -	new L	nt [3][- را					
	Column	1 60	luma 2	column3	Colum 4 -					
Row 1	a[0][0]][1]	a[o][2] a	[0][3].					
Row 2	a[1][0]	all	a[1][1] a[1][2] a[1][3] -							
Row 3	a[2][0]	1-9[:	2][1]	9[2][2]	2[2][3]					
1 1 1 T	2.0		Tair		-					
anmalize	ng 2) a	riay in	Jav 4							
int[][] a = {										
\$ 1, 2, 3},										
\$ 4,5,6,93,										
\$73,										
y										
Row 1	Column 1	Column 2	Colcerun.	3 Column						
Row 2	4	5	6	9						
Row3	7		3							
	7		1							