	Arrays and Array List in Jo	ava.	
(£) %	Need -> To store multip	le values, if don't h	cere to instic
	vaniables again	n a again.	
4	- For dynamic A	rray (Arraylist)	
	(Stack) Declaration	en creation of ob	of, mercery ell
2	Syntax -> "Inf [] Name	= new int[size];	no heap
	Stock) Declaration Syntax -> Inf [] Name # All detaype 1	is same in an arr	ay.
	y int[] → dately	gpe of ele inside and	
	Name - sef Van	iable/Name	
	new - to chi	te ar obj	
	Int[size] -> no:	of elements.	
3			
	Declaration happens as tremony allocation h	uppers at outstime.	
	n WKT, stack - local var heap - inst var	r & methods & objects.	
73 A	As there Ps no concept of		0 0
	an array deer not he	or continued	, in Java
	i.e depends on JVM.	men men	ony alloution
(4) N	ull -> special literal		
	all - special literal, un (Arrighed to nothing	e buy be aingued to	detatypes
<u>s</u>	Input -> for ()	1	Takens as
	۲:1 هود	= Sc. neut Int ().	12345
-	3	e sc.neutInt();	Nor (1)
A	rays. to string (arr)	In the second second	
200	ap (arr, i, i); (Arrays. 20rt() -> En	wer strictfuller of	Puternal work
	Arrays. 20rt() -> For	sorting the working	internal most
7 54	shed and imanifeld	U	•
	n'ngs are immutable	but arrays are	nutable.

0	Multidimentional Arrays (20 600 mitrix)		
	os "ent[][] arr = new int[3][3]; (Arrays of Arrays)		
	se volume is optional.		
	LE column is optional		
	Input - > 2 for loops wed . (in second loop conditionis		
	Output - same steps i.e 2 for loops, one line to be added in outer for.		
	C, one line to be added in outer for.		
(8)	Dynamic Arrays Dynamic Arrays Arraylist is used (some more way.		
	-> Arraylist in used Is one more way.		
	in jara as dynamic crosay.		
	3 Syntax -> Arraylist (Integer) lists = new Arraylist		
	-> One of the class of collections framework.		
	Sustem out minten (1841) . 2 for loop not capacity)		
	List 1. set (Index, y); remove, . clear().		
	3 arr [0] mens. 3 List1-get (0)		
	s now dynamic -> doubles when reaches the end. [O(1)]		
	s now dynamic -> doubles when reaches the end. [O(1)] (1->2->4->8->16->32) Geopies ald list to the new longer List.		
9	List.		
	Horaylist (Arraylist (Integers) -> for 2D Arrays. Others game.		
	Arrays finished. for		
	for () { For () {		
	for ()		
	list1.get(i).add(sc. newzig		
	1 1		