DSA-DW1 4/12/28 Array Day 5 Monday ARRAYE AND APPAYELET the way simple when we have to store you have integer come number and now less naune we have to store 5000 integer numbers a it possible to use 5000 variable ? [10] To landle these situations in almost all programming language we have a concept cla Array. Array is a data structure, to always an comparating tranging ulaced to stone collection of date - Syntax: comple dututype [] variable name = new dutatype [ive]:

Exist C] mas = new int (5); or int C) mas = {1,2,3,4,5}; · datatype [] valuable name; //declaration of away represents the type e All and · All the data in the across should have seize databype Confine · variable name = new datatype [sze]; //initialiaria Garrial memory allocation happens have Here object à being cereated in hoop memory Emport java util anays; of Ex: int ONU[]= {2,5,7,8,9} augu stack

Internal Representation of Array totally depends on JVM

Internally in Java, memory allocation totally depends on JVM

cushelion is be constitutous on not ble:

Array totally depends on JVM

Array totally depends on JVM @ in the Crown language specification it is monotioned that there is no crown to the specification of the monotioned that there is no crown to the specification of the specifica Dynamic momony allocation, Hence, away object in some may not be continuous (depends on TVP) In Java, the flash index of frist element is sens index of selement is I and so one Et int num (7-5:----> mack of an comay: Then, and [6]=1 and [1]=2 and [2]=3 and [3]=4 ard[4]. of we write, Then acrony becomes [3/2/3/4/6] ana [4]=6; => 100 payarord: It is ased to consale an object. int[] and = (new int [5]; THERE OIT will collabe on Object in hoop Memory op alloy size 5. => Null array. of we con't provide values in the array, interinally by confine default it stones [0,0,0, Ex String [] artinew string [4] and and the stored? theorem memory ares contol soul. stack Heap

Note o primitivites (int, choose, ex) due stored in stack. . An other objects are stored in heap memory -> Amay (tosting (country) > internally uses for loop and ques the output in proper format. · Mays are mutuable the are can change the objects # 20 Arrays sow commis. Syntax: int[][] are = new int[size][The off int CICI am = { 21,2,33, {4,5,63,67,87,933; [4,8,6], -> row 1 [7,8,9], -> row 2 aun Carray of arrays. stack. 0301 Stack lo, aur[0]: [1,2,3] avar [o][o]=1.

Anay Anay Prese	tol in	a po java. U onays in	inu of hil. packa	collec ge. It	tion of provide	hannow es us	OU With
array	4	wyk	wi th				
Array	104 < 1 4 4	gn > List -	new 1	roog Lit <	> ();	inneralis i divinito a mala calminati nasa sasa na panan	
a) It	is tixed be also will m	internally on white and one one	jels filed	by s	ome a say (mount Louble	the
(e) Pennin	num v	Array.	an	Array.	tion in	Day 1	-(00
4	0-au =	(1,2,3,4 (5,4,3,	5]				