why to learn DSA? L' Raise lucel of programming 2. Efficient Programmings 3. Able to some complex problems 4. Campus Placement 5. A Grade Company Placements. Importance of Structuring Data? Eg: - Dictionary Book, Maps, What is a Data Structure? Data Structure is a particular may of storing of organizing data in a computer so pet it can be ruled efficiently. Classification of Data Structure. 1 Whear DS Array, Dynamic, array; lired list; stock, queue, deque et. 2) Non-linear DS BST, AVI, B. Tree, Bottel, graph etc.

Algorithm:An algorithm is the step by step, Linguistic representation of logic to solve a guicen problem. Epython to be known · bruilt - In - types · control stakments June vons · closes and eliects · -- prit_-() · Types of variables and junctions in class. # Array of with Array:- collection of similar elements. Agas som eneger values so hat But should belong so some eargory Array is not a suittin data structurel so reed to be imperial.

	to wist :- array to	list concersion Page No. S. Date (/ /
	@ Creating Array:-	17/ 1
	· ·	
	Joon array imper	+ *
	at = array (type	soole, [elements])
		Marine Dispersionally VIII Commence
	type code	C type
	'b' -	- digned intger
	'B' — -	unsigned integle
	'ul'	unicode character
	A'	- signed integer
	'H'	
	(9)	unsigned integer
	1'	signed integer
	l'	unsigned integer
	1013/4/	signed integer
7	91 -	insigned integer
	0'	signed irteger
		unsigned irteger
	Le.	floating point
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18	3000	22/2015/12/2
H	Array Methods :-	Johnson, State of the Control of the
8	7 10 103 1	
	append()	
	(ount ()	pop ()
	extend()	renoul()
		reverse ()
	from ever)	to lift ()
	index()	
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	# List		
	-> list 4 9 class		
	-> list is mutable		
	-> sixt elements que incleved		
	-> list is an iterable -> list son grove (dynamic arrays) -> list can contain seifferent type eldnish		
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	[0] 1 2 3 3 9		
1000	# Dynamie Arroay		
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of Couring list.

4 = [10, 20, 30]

dr = [] 13 = [10, 5.7, abc]

to methods of list

append () clear ()

court ()

extend()

index ()

insert ()

pop ()

Jemoul ()

Sort ()

reverse ()

NomPy

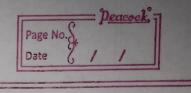
import numpy as up

a= np. array ([1,2,3])

print (9)

5 = np. anay ([1,2,3], [10,20,30]]

\$ 25 array



come aryel sear 3 lookets

C= np. array ([[112, 3], [10, 20]])

print (c)

price 18 array

prior 18 array with two list type elements.