Flattering the crossys Flattening array mans converding a multidimensional array into a ID overay. we can use reshape (-1) to do this. Convert en array into a ID array! isobest enubly or ub ace = ub. accord ([[1\5\3]\CA\2\ell]) being (venouse) Numpy Array I tenshing Iterating means going shrough elements one by As we deal with south-dimensional arrays in numpy, we can do this using basic for loop. Therete on the elements of the following I-Donay imbast smeathed as elb ass = wb. assar ([1/2/3]) for a in arr: print (x)

Hearding 2-D Arrays Herding on the elements of the following 2-Daviay: Mimbart mountain on ub ass = wb. assan ([[1, 2, 3], [4, 5, 6]]) for in our set being(x) Output [123] [4567 Iterate on each scalar element of the 2 du se holmense geoducine oces = sub. assert ([[1/5/3]/[4/2/6]]) for in ours; for y in x being (A) Output Iterating 3D Arrays In a S-D away it will go through all the 2-Davays. I terule on the clements of the following 3-D inpost sumpy as sup [[[1,2,3],[4,5,6],[27,8,9], [10,11,12]] for a in ano:

2 supresents the 2-Dorry: The same of the position of the same of th [[123] n supresents she 2-Darray: [[8 5]] [10 11 12]] To return she actual values, she scalars jue love to return she arrays in such dimension. 2) Iterate clown to the scalars: import numpy as no are = 20 00000 ([[[1,2,3], [4,5,6]], [[3,8,3]) [10,11,12]]] - - engen) for n in arr: for y in x: for 8 in y. being (2) forced 1,2 \$12345678910 111123 (hirizentally) Iterative Arrays Using notator() The function notites () is a religing function that can be used from very basic to very advanced exerctions. It solves some basic ussues which we face in iteration, let's ge Anrough it with examples. Iterating on Each Scalar Element import numpy as up orea = wb. oason ([[[1:5], [3:4]], [[2:4]]) fac in wb. ugited are): Output [12345678]

I teraling Amoray with Different Dasa The we can use op-dtypes argument and pais cet one expected datatype to change the datatype of elements while iterating. Numpy does not change she data sype of she Cloment in-place (where see cloment visin owner spore de some of sos spore de perform shis action, that extra space is called buffer, and in order to enable it in roller ue pass flage = ['buffered1]. eg Iterate shrough the array as a storing: imbast unsuboh or eb area = seb. areagh ([1,513]) for n in spinditer (arr, flags = [buffored] op-dtypes=['s']): being (u) Juguo Output 611 6121 Iterating with Different Step Size Iterale strough every scalar element of the 2D armay skipping I element: e'd. From I make de 100 pullacett impost number as np? oue = ub. assard ([[1,5,3,4],[2,6,1,8]]) fer n in mp. nditer (ara [:)::2]): being (N)