G. H. Raisoni College Of Engineering And Management, Wagholi Pune				
<u>2021- 2022</u>				
Group B :-Assignment no :- 2				
Department	CE [SUMMER 2022 (Online)]			
Term / Section	III/B	Date O	f submission	<u>08-10-2021</u>
Subject Name /Code	Python for Data Science / UCSP204			
Roll No.	SCOB77	Name	<u>Pratham Rajkumar pitty</u>	
Registration Number	2020AC0E1100107			

HAM I write a Python Function that takes
two numpy ndarray objects checks if
they are the same strape (printing Error
and aborting if they aren't) then raises the
and aborting if they aren't) then raises the
numbers b of the second array to the
numbers b of the second array DoThis
exponents a in the First array DoThis
exponents a in the First array DoThis
exponents a in the First array like numpy
with out using numpy functions like numpy
power in your function make sure that it
works with differently sized numpy grays
arrays of a dimensions, I dimension and a
dimension no the same using the numpy power
function.

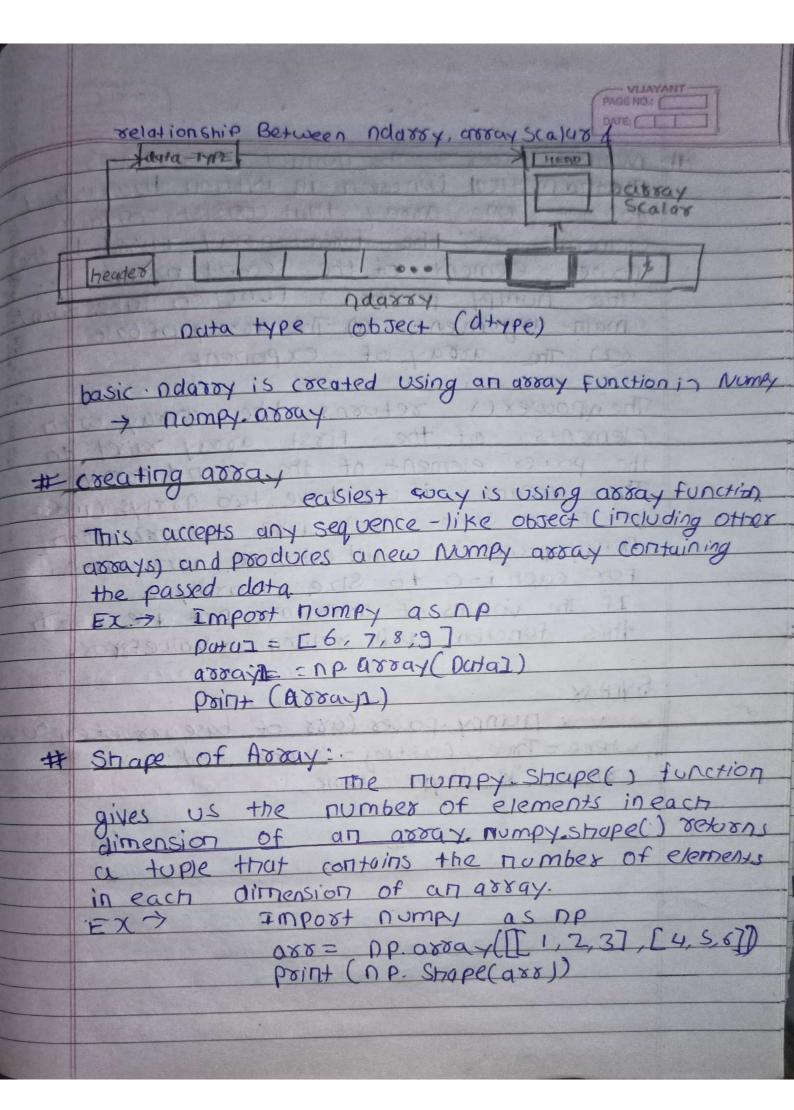
Numby Array: Numby is a python package
that stands for Numerical python core library
for scientific computing
usefull in linear algebra, random number capability
etc. also used an efficient multi-dimensional
container for generic data.

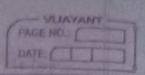
Numby adaptay: + A multi-dimentional adday object

The most impostant object defined in Numpy is an N-dimensional array type called nearray. It describes the collection of items of the same type . Items in the collection can be accessed using a zero-based index.

Exercised using a zero-based index.

Exercised using a new takes object (by swarg) is represented by a python object of one of array scalar types





Mathematical Function in Python that is used to get one array that consist contains elements of the First array raised to the power element of the second erray.

The numpy power () Function takes two main arguments: (i) The array of base

(1) The array of exponent

The oppower() returns the wrray with elements of the first array with the power element of the second arrays in this means if we have two arrays (must be of the same size) array and array then numbly power() will (a) culate array narray:

For each i=0 to Size of array-I.

If The values of array are not the then this function will return a value error.

Syntax:

numpy power (arr of base arr of erp, out=16)
where = True, (asting = 'same kind',
order - k' dtype = None

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Group B Assignment 2 program code

```
print("**********************************")
print("SCOB77_Pratham pitty_Group B Assignment 2")
print("*********************************")
print("\n----")
import numpy as np
arr1 = np.array([[1,2,3],[4,5,6]])
arr2 = np.array([[7,8,9],[2,2,2]])
if arr1.shape !=arr2.shape:
print ("Error: Given arrays are of not same size")
else:
print ("Exponential of 2nd on 1st array is: \n", arr1**arr2)
print("-----")
#Using the built in power function
import numpy as np
arr1 = np.array([[1,2,3],[4,5,6]])
arr2 = np.array([[7,8,9],[2,2,2]])
if arr1.shape !=arr2.shape:
print ("Error: Given arrays are of not same size")
else:
print ("Exponential of 2nd on 1st array is using built in function:\n", np.power(arr1,arr2))
```

