	rrav object	We can norfa	n mentioned ndarray (Oneration		
1) add()		-		-		
			darrayobj1, ndarrayobj2)			
2)subtrac	:t()	>numpy.subtract	t(ndarrayobj1, ndarrayobj2	2)	(-)	
3)multipl	y()	>numpy.multiply	ly(ndarrayobj1, ndarrayobj2	2)	(*)	
4)matmu	ıl					
5) dot()						
6) divide	()	>numpy.divide(r	ndarrayobj1, ndarrayobj2)-		(/)	
			vide(ndarrayobj1, ndarrayo			
			(ndarrayobj1, ndarrayobj2)	_		
9)power()	>numpy.power	r(ndarrayobj1, ndarrayobj2))	(**)	
_	_	we do the elem	ent wise matrix multip	plication. Actual	Matrix Multiplication of	can be done by using (4
and (5)						
[1]: # We can per	rform above arthin	matic operation either by	y suing functions or by using oper	rators		
[7]: import numpy	y as np					
[9]: a=np.array(print(a)	[[10,20],[30,40]]))				
[[10 20] [30 40]]						
[5]: b=np.array([[1,2],[3,4]])					
print(b) [[1 2]						
[3 4]]	b) #USING add()	function				
<pre>print(c)</pre>	J) #031NG ada()	J direction				
[[11 22] [33 44]]						
c1=a+b #Us print(c1)	sing + operator					
[[11 22] [33 44]]						
	ct(a,b) #using Sub	btract function				
print(d) [[9 18]						
[27 36]]						
d1= a-b d1						
array([[9, [27,	18], 36]])					
print(a) print(b)						
[[10 20]						
[30 40]] [[1 2] [3 4]]						
[3 4]] 22]: print(d1)						
[[9 18] [27 36]]						
23]: a.ndim						
23]: 2						
d1.dtype						
dtype('int32	2')					
print(d1,ob	ject)					
	class 'object'>					
d1.dtype	2 ' \					
dtype('int32						
<pre>print(a)</pre>	ise Matrux Multipl	lication				
print(b) [[10 20]						
[30 40]] [[1 2] [3 4]]						
c= np.array	(a*b)					
print(c) [[10 40]						
[90 160]]						
c=a*b print(c)						
[[10 40] [90 160]]						
c=np.multip	ly(a,b)					
array([[10, 39]:	, 40], , 160]])					
	rix Multiplication	n				
<pre>print(a) print(b)</pre>						
[[10 20] [30 40]]						
[[1 2] [3 4]]						
c=np.matmulo						
[[70 100] [150 220]]	<class 'numpy.nda<="" td=""><td>array'></td><td></td><td></td><td></td><td></td></class>	array'>				
45]: c=np.dot(a,						
		•				
print(c,type [[70 100]	<class 'numpy.nda<="" td=""><td>array`></td><td></td><td></td><td></td><td></td></class>	array`>				
print(c,type [[70 100] [150 220]]						
print(c,type [[70 100] [150 220]] 47]: a.dtype	2')					
print(c,type [[70 100] [150 220]] 47]: a.dtype dtype('int32 48]: c=np.dot(a,t)	b)					
print(c,type [[70 100] [150 220]] 47]: a.dtype dtype('int32 48]: c=np.dot(a,t) print(c,object) [[70 100]	b) ect)					
print(c,type [[70 100] [150 220]] 47]: a.dtype dtype('int32 48]: c=np.dot(a,k print(c,objection) [[70 100] [150 220]]	b) ect) <class 'object'=""></class>		nlication numbers 4	n use		
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