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$\frac{1}{2}$	
	The state of the s
1	A PART OF THE PROPERTY OF THE PART OF THE
->	det mapper (data):
11 j	det musper (duti):
	Key, Vulue = duter result = []
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rearlt - P1
	tox (10) 1 30 344 o ( 1:16)
	101 W012 IN Value - 3011+().
100 100 100 100 100 100 100 100 100 100	tor word in vulue-split():  result uppend ((word, 1))  return result
	The state of the s
	def reducer coutar.
	k. 11.1.0 - 1.41
	ke, rulue = Lutu return (key, sum (vulues))
	return cheg, samevaluess
	det mapreduce (duta, mapper, reducer, num-process
	= 2):
The state of the state of	The state of the s
(me/ ) (40)	pool = multiprocessing pool (processes=num_processes=
	mupped-duty: pool. mup (mupper, duty)
- 32 <sub>(A)</sub> (35)	mapper = auta : poor. map (mapper, auta)
	flattend-duty=[item for sublist in mapped -duty for item in sublist]
(1964) (1944)	-duty for item in sublist?
	, , , 1   1,1 - 7,1
	grouped-duty=13
	for key value in flattened-dutu!
	grouped dutu. setdefuult (Key, []). uppen
	cvalue

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	grouped-dutu- j tems = list (grouped-dutu-items())
	reduced_dutu = pool-mup (reducer, grouped_dutu)
	pool-close() pool-joine)
e i	return reduced-dutu
	it nume == "muin":
	input dutu = [[], "apple buna: 4"], (2, "bununa, 0 yang e"), c3. "orunge, apple)]
	result = mapreduce Cinput-duty, mapper, reducer
	for item in result:
	Print (item)
Tanks.	
A STATE OF THE STA	
-017	<u>하는 이 보고 있는 보이면 하는데 이 동안 모르면 하는데 되면 되었다. 이 동안 되지 않는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하</u>

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(4) (ii)	
Algorithm and the second	
->	import multi processing
	cluss mufikelyce:
	TWP WAYLE.
	det init cself, num processes = ?):
	self. num_processes: num_processes
	def mupper (self, dutu):  Y Uise Not Implemented Error ("Subclusses my implement mupper method"
	ruise Not Implemented Error (Subclusses my
	implement mupper method
Mary War ag	det reducer (self.dutu).
	ruise Not Implemented Error ("Subclusses must
alamater ( ) disc	implement reducer method
	def_mup (seif, duty):
	det_muf (self, dutu): vesult = []
	for item in duty:
	result extend (
	self-mupper (item)
	Val
	return result
	def_reduce (self, duty):
	reduced - duty=14
The state of the s	tox key, value in dutu:

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reduced duty set defuglt (key, 13) uppend
return [(key, sum(vulues)) for key, vulues in reduced-dutu.items()]
20 reducat la la idance ( ) 7
TO TOUCH - AUTO . ITEMS [ )
det run (self, duter)
pool = multiprocessing pool (processes = self.
1001 - MINIFIFID CESSIVI 9 . 1001 (110 CESSES - SELT.
Chunk size lass structured num processes
chunk_size=len (duty // self. num_processes
chunks = [duty [i it chunk = size] for i in runge (U, len (duty), (hunk-
10x 1 11 runge (0, len (dutu), (hunk-
Fl. 440.001 1 1 517e7]
fluttened dutu=[
item for sublist in mapped dut
for item in sublist
Vaca 14 - Call 11
result = self - reduce (fluttened - duty)
pool-close()
Pool.join()
return result
Cluss word Count (Mapkeduce):  det mapper (seit, duty):
det mupper (seit, duty):
Key Vulue = dutu
1/0 [ 1   ]
tor word in value split w:
result append (word 1) 1
for word in value split ():  Yesult append (word, 1) )  Yeturn result
de f reduces (self, duty):
Key, Value = duta
return (key, sym (values))

SOAT CALL	Parul® University	NAAC OH

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rg. 110		
Data		

	Date
	if_numf_===''main''
6 - 10 - 18 - 18 - 18 - 18 - 18 - 18 - 18	input_datu = [(1,"apple banany"), (2,"bureny orange apple")]]
	word-count job = word(ount c)
	result = word_count_job_run(input_duty)
	for item in result:  print (item)
7,340	
	tological states and tological states are tological

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= - (iii)	
,= ,= ,=	
~ <u>`</u>	from mrjob. job import MAJOb from mrjob. Step import MAStep
# <u> </u>	Class Word Count (MAJOh):
jo	det steps (self): Yeturn [MRStep (mupp ex= self. mupper, reducers self. reducers
<del></del>	det mupper (selt, _, line):
F	To kenizes each line and emits (word,
	for word in line splite: Yield word lower(), 1
	if _ name == " main _ ":
	wordlount.runc)
•	input.txt
	bunung orunge Orunge apple