gedit grademapper.py

#!/usr/bin/python

import sys

def mapper():

n=1

for line in sys.stdin:

marks=line.strip().split()

marks=list(map(int,marks))

avg=sum(marks)/len(marks)

print(avg)

mapper()

gedit marks.txt

88 78 69 82 53 94

80 95 89 75 90 83 GRADE

cat marks.txt | python grademapper.py

gedit gradereducer.py #!/usr/bin/env python

import sys

def reducer():

n=1

for line in sys.stdin:

avg=line

avg=int(avg)

if avg>=90: grade="A"

elif avg>=80:grade="B"

elif avg:grade="C"

elif avg>=60:grade="D"

else: grade="F"

print "student-{0}\tgrade-{1}".format(n,grade)

n+=1

reducer()

cat marks.txt | python grademapper.py | python gradereducer.py

hdfs dfs -put marks.txt marks.txt