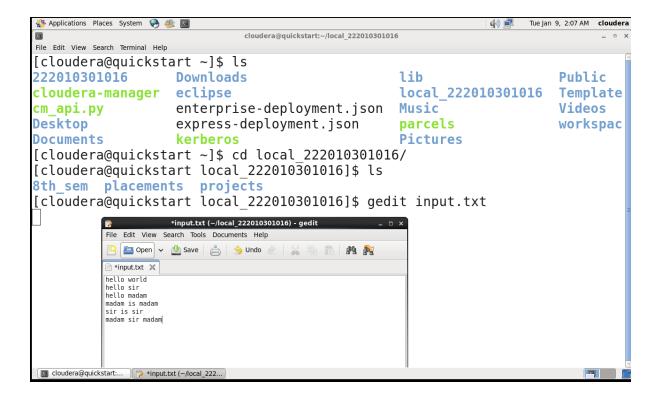
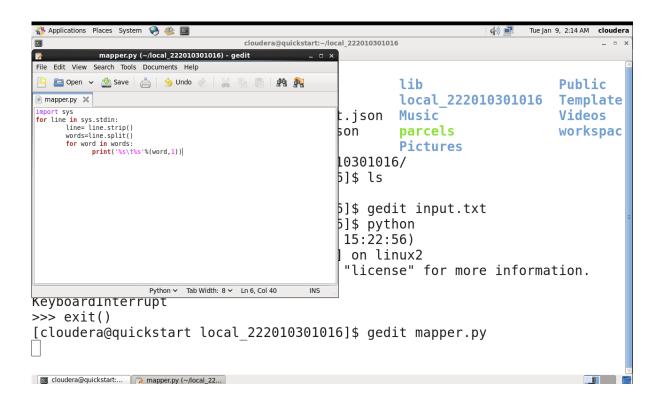
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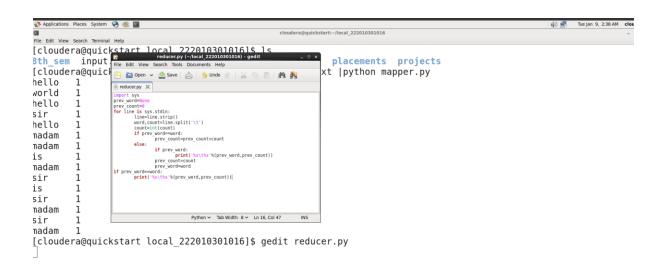
Map Reduce – Word Count





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```
[cloudera@quickstart local_222010301016]$ ls
8th_sem input.txt input.txt~ mapper.py mapper.py~ placements projects [cloudera@quickstart local_222010301016]$ cat input.txt |python mapper.py
hello
world
hello
          1
1
1
sir
hello
madam
madam
          1
is
madam
sir
is
sir
madam
sir
madam
[cloudera@quickstart local 222010301016]$
```



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```
💸 Applications Places System 🤪 🍩 🔤
                                                                                                         (4) Tue Jan 9, 2:39 AM clou
File Edit
is
sir
madam
sir
madam
[cloudera@quickstart local_222010301016]$ gedit reducer.py ^C
[cloudera@quickstart local_222010301016]$ cat reducer.py
import sys
prev_word=None
prev_count=0
for line is sys.stdin:
line=line.strip()
        word,count=line.split('\t')
         count=int(count)
        if prev_word==word:
                 prev_count=prev_count+count
                 if prev_word:
                 print('%s\t%s'%(prev_word,prev_count))
prev_count=count
                 prev_word=word
```

```
[cloudera@quickstart local 222010301016]$ cat reducer.py
import sys
word,count=line.split('\t')
        count=int(count)
       if prev_word==word:
               _prev_count=prev_count+count
       else:
               if prev_word:
                       _print('%s\t%s'%(prev_word,prev_count))
               prev_count=count
prev_word=word
if prev_word==word:
       print('%s\t%s'%(prev word,prev count))
[cloudera@quickstart local_222010301016]$ cat input.txt |python mapper.py |sort|python reducer.py
hello
is
madam
sir
world
        4
[cloudera@quickstart local_222010301016]$
```