

## **Installed mrjob Library Successfully**

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```

## **Question 6**

```
from mrjob.job import MRJob
 2
    import re
 3
    WORD RE = re.compile(r"[\w']+")
 4
 5
    aton = ('a','b','c','d','e','f','g','h','i','j','k','l','m','n')
   □class MRWordCount (MRJob):
 9
        def mapper(self, _, line):
10
             for word in WORD RE.findall(line):
                 if (word.startswith(aton)):
11
12
                     yield 'a to n', 1
13
                 else:
                     yield 'other', 1
14
15
        def combiner(self, word, counts):
16
17
            yield word, sum(counts)
18
        def reducer(self, word, counts):
19
            yield word, sum(counts)
20
21
22
                == ' main ':
23 =if
        name
        MRWordCount.run()
24
```

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## **Question 10**

```
from mrjob.job import MRJob
 ∃class MRSalaries (MRJob):
 4
        def mapper(self, , line):
             (name,jobTitle,agencyID,agency,hireDate,annualSalary,grossPay) = line.split('\t')
 6
            f annualSalary = float(annualSalary)
            if f annualSalary>0 and f annualSalary<49999.99:</pre>
 8 🛱
 9
                yield 'Low', 1
            elif f annualSalary>50000 and f annualSalary<99999.99:</pre>
                yield 'Medium', 1
            elif f annualSalary>=100000:
                yield 'High', 1
14
        def combiner(self, SalaryCategory, counts):
            yield SalaryCategory, sum(counts)
17
        def reducer(self, SalaryCategory, counts):
19
            yield SalaryCategory, sum(counts)
22 =if name == ' main ':
        MRSalaries.run()
```

## **Question 12**

```
from mrjob.job import MRJob
 2
3 □class MRSalaries (MRJob):
 4
        def mapper(self, _, line):
 5
             (userId, movieId, rating, timeStamp) = line.split(',')
 6
            yield userId, 1
 9
        def combiner(self, userId, counts):
            yield userId, sum(counts)
10
11
        def reducer(self, userId, counts):
12
13
            yield userId, sum(counts)
14
15
16 ∃if
       name == ' main ':
        MRSalaries.run()
17
```

