```
1001, John, 45
1002,Jane,68
1003,Bob,75
1004, Alice, 55
1005, Charlie, 90
1006,Eve,82
1007, David, 63
1008,Frank,78
1009,Grace,92
1010,Henry,60
1011,Isabel,70
1012,Jack,80
1013,Kate,88
1014,Liam,50
1015,Mia,72
1016, Noah, 65
1017,Olivia,85
1018,Peter,58
1019,Quinn,76
1020, Riley, 95
mapper.py
#!/usr/bin/env python
import sys
# Input comes from standard input
for line in sys.stdin:
# Remove leading and trailing whitespace
line = line.strip()
# Split the line into fields
student id, name, marks = line.split(',')
# Convert marks to integer
marks = int(marks)
# Emit key-value pairs where key is the student ID and value is the marks
print('%s\t%d' % (student id, marks))
reducer.py
#!/usr/bin/env python
import sys
# Initialize variables to hold student IDs and marks
student ids = []
marks = []
```

```
# Input comes from standard input
for line in sys.stdin:
# Remove leading and trailing whitespace
line = line.strip()
# Split the line into key and value
student id, mark = line.split('\t')
# Convert mark to integer
mark = int(mark)
# Check if mark is above 60
if mark > 60:
# Append student ID and mark to their respective lists
student ids.append(student id)
marks.append(mark)
# Output filtered student IDs and marks
for i in range(len(student ids)):
print('%s\t%d' % (student ids[i], marks[i]))
```