## Assignment No 3

Develop a MapReduce program to find the grades of students.

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gedit student.csv
Name, Score,
kaustubh,90
Srushti,100
Anuja,98
Sammrudhi,90
Rutuja,98
Tejashree,89
sanskruti,80
nikita,70
sneha,70
shreyash,95
kartik,90
gedit reducer.py
#!/usr/bin/env python
import sys
for line in sys.stdin:
  line = line.strip()
  if not line:
    continue
  parts = line.split("\t")
  if len(parts) != 2:
    continue
  name, grade = parts
  print("{0},{1}".format(name, grade))
gedit mapper.py
#!/usr/bin/env python
import sys
import csv
reader = csv.reader(sys.stdin)
next(reader) # Skip header
```

```
for row in reader:
  if len(row) != 2:
    continue
  name, score = row
  try:
    score = int(score)
  except ValueError:
    continue
  if score >= 90:
    grade = "A"
  elif score >= 80:
    grade = "B"
  elif score >= 70:
    grade = "C"
  elif score >= 60:
    grade = "D"
  else:
    grade = "F"
  print("{0}\t{1}".format(name, grade))
```

run this command to get output cat students.csv | python mapper.py | sort | python reducer.py

