Name: Ajinkya Kumbhar

Roll: BEAD20136

Subject: Computer Laboratory-III

Class : BE

Branch: AI & DS   
Assignment 4

Code:  
from mrjob.job import MRJob

class MRStudentGrades(MRJob):

def mapper(self, \_, line):

# Assuming the input format is: student\_id,score

student\_id, score = line.split(',')

score = int(score)

yield student\_id, score

def reducer(self, key, values):

# Assuming a student might have multiple scores, we take the average

scores = list(values)

avg\_score = sum(scores) / len(scores)

# Assign grade based on average score

if avg\_score >= 90:

grade = 'A'

elif avg\_score >= 80:

grade = 'B'

elif avg\_score >= 70:

grade = 'C'

elif avg\_score >= 60:

grade = 'D'

else:

grade = 'F'

yield key, grade

if \_\_name\_\_ == '\_\_main\_\_':

MRStudentGrades.run()

OUTPUT:

