fr = open('score.csv','r')

ls = []

for line in fr:

line = line.replace("\n","")

ls.append(line.split(","))

fr.close()

#statistic max\_score, min\_score, avg\_score

className = ls[0][1:]

max\_score = [0,0,0]

min\_score = [100,100,100]

avg\_score = [0,0,0]

for stu in ls[1:]:

for i in range(3):

#i=1: language; i=2: mathmatic; i=3: english

score = int(stu[i+1])

if score > max\_score[i]:

max\_score[i] = score

elif score < min\_score[i]:

min\_score[i] = score

avg\_score[i] += score

for i in range(3):

avg\_score[i] = avg\_score[i]/( len(ls) - 1)

#output

for i in range(3):

print(" {}的最高分是： {}，最低分是：{}， 平均分是：{}".format(className[i], max\_score[i], min\_score[i], avg\_score[i]))

#calculate total score

ls[0].append("总成绩")

for i in range(1, len(ls)):

total = 0

for j in range(1, len(ls[i])):

total += int(ls[i][j])

ls[i].append(str(total))

#write data into newscore.csv

fw = open("newscore.csv","w")

for row in ls:

fw.write(",".join(row) + "\n")

fw.close()