**实验报告**

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**实验名称**： 课后习题练习

**实验要求：熟练应用程序做题**

**实验题目：7.6** **处理score.csv**

**算法实现：7.6**

import os

def userOperateInterface():

print("\n请选择词典功能")

print("i: 添加单词")

print("s: 查询单词")

print("Q: 退出词典")

print("请选择功能：")

return input()

def addWord(wordDict:dict, fileName):

str = input("您输入要加入的单词：")

if str in wordDict.keys():

print("该单词已添加到字典库\n")

userOperateInterface()

else:

t = input("请输入此单词的中文释义：")

wordDict[str] = t

with open(fileName, 'a') as fw:

fw.write(str + " " + t + '\n')

def selectWord(wordDict:dict):

str = input("请输入您要查询的单词：")

if str not in wordDict.keys():

print("字典库中未找到这个单词\n")

else:

print(wordDict[str])

def main():

wordDict = {}

if os.path.exists("dict.txt"):

with open("dict.txt", 'r') as fr:

for ln in fr:

s = ln.split(" ")

wordDict[s[0]] = s[1]

else:

fw = open("dict.txt",'w')

fw.close

print("字典查询")

while True:

op = userOperateInterface()

if op == 'i':

addWord(wordDict,'dict.txt')

elif op == 's':

selectWord(wordDict)

elif op == 'Q':

break

else:

print('输入有误\n')

main()

**处理score.csv**

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

ls = []

for line in fr:

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

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

fr.close()

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):

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)

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]))

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))

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

for row in ls:

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

fw.close()

**实验结果：**