**Python实验报告1（数字）**

**学号：** 117060400130 **姓名**： 罗建燕 **班级：** 17应用统计（1）班  **指导老师：** 林卫中

**实验名称1**： 制作英文学习词典

**算法实现：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("\*\*\*\*\*\*欢迎使用简明英汉词典\*\*\*\*\*\*")**

**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()**

**实验报告2： 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()**

**实验小结：实验2运用了逗号分隔值的存储格式，再用字符串的join（）方法组成分隔形式再通过文件的write（）方法存储到csv文件中。**