**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：7.1 7.2 7.5**

**算法实现：7.1**

import keyword

kws = keyword.kwlist

file = input("读取的文件：")

fr = open(file,'r',encoding='utf-8')

wline = ''

for line in fr:

wline += '\n'

if 'import' in line:

wline += line

else:

j = 0

while line[j] == ' ':

wline += ' '

j += 1

sline = line.split()

for w in sline:

if w in kws:

wline += w

elif '.' in w:

wline += w

elif '(' in w:

wline += w

elif ':' in w:

w=w[0:-1]

else:

wline += w.upper()

wline += ' '

fr.close()

fw = open(file,'w',encoding='utf-8')

fw.write(wline)

fw.close()

**7.2**

from PIL import Image

im = Image.open("E:\Hydrangeas.jpg")

w,h = im.size

c = 6

im.thumbnail((w//c, h//c))

im.save('E:\Hydrangeas1.jpg')

**7.5**

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 test(wordDict:dict):

wordlist = wordDict.keys()

t1 = random.sample(wordlist,5)

c = 0

for w in t1:

print("请输入单词{}的中文释义".format(w))

e = input()

if e in wordDict[w]:

c += 1

print("right")

else:

print("error")

print("您总共答对{}题".format(c))

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)

print("error")

print("您总共答对{}题".format(c))

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)

**实验结果：**