**7**

#### 1.  Write a Python program to read first n lines of a file.

#### file="Day8.txt"

#### n=int(input("Enter the number of lines to be read: "))

#### def readFile(n,file):

#### with open(file,"r") as f:

#### x=f.readlines()

#### print(x[:n])

#### readFile(n,file)

#### output:

#### Enter the number of lines to be read: 6

#### ['File: is a named location on the secondary storage media where data is stored permanently for later access.\n', '\n', 'Types of files:\n', '\n', 'Text file:human readable form\n', '\n']

#### 2. Write a Python program to append text to a file and display the text.

#### def textCreate():

#### x=open("testTest.txt","a+")

#### while True:

#### text=input("Enter text to append: ")

#### x.write(text)

#### x.write("\n")

#### choice=input("Do you want to enter more(y/n): ").upper()

#### if (choice=='N'):

#### break

#### x.close()

#### textCreate()

#### 3. Write a Python program to read a file line by line and store it into a list.

#### file="twinkle.txt"

#### list=[]

#### with open(file,"r") as f:

#### for i in f:

#### print(i)

#### choice=input("Do you want to add this line(y/n): ").upper()

#### if(choice !='N'):

#### list.append(i)

#### else:

#### break

#### print("created list: ",list)

#### 4. Write a program to print each line of a file in reverse order.

#### file="twinkle.txt"

#### with open(file,"r") as f:

#### x=f.readlines()

#### print("Normal order: \n",x)

#### print("\n")

#### print("Reverse Order: \n",x[::-1])

#### 5. Write a Python program to write a list content to a file.

#### list=['\_\_doc\_\_', '\_\_loader\_\_', '\_\_name\_\_', '\_\_package\_\_', '\_\_spec\_\_', 'acos', 'acosh', 'asin', 'asinh', 'atan', 'atan2', 'atanh', 'cbrt', 'ceil', 'comb', 'copysign', 'cos', 'cosh', 'degrees', 'dist', 'e', 'erf', 'erfc', 'exp', 'exp2', 'expm1', 'fabs', 'factorial', 'floor', 'fmod', 'frexp', 'fsum', 'gamma', 'gcd', 'hypot', 'inf', 'isclose', 'isfinite', 'isinf', 'isnan', 'isqrt', 'lcm', 'ldexp', 'lgamma', 'log', 'log10', 'log1p', 'log2', 'modf', 'nan', 'nextafter', 'perm', 'pi', 'pow', 'prod', 'radians', 'remainder', 'sin', 'sinh', 'sqrt', 'sumprod', 'tan', 'tanh', 'tau', 'trunc', 'ulp']

#### def listToFile(file):

#### file=open(r"listToFile.txt","a+")

#### for i in list:

#### file.write(i)

#### file.write("\n")

#### file.close()

#### listToFile(file)

#### file="listToFile.txt"

#### def printFile(file):

#### with open(file,"r") as f:

#### for i in f:

#### print(i)

#### printFile(file)

#### 6. Write a program to compute the number of characters, words and lines in a file.

#### file=open("twinkle.txt","r")

#### def charsWordslines(file):

#### file.readlines()

#### file.seek(0)

#### lines=file.readlines()

#### noOflines=len(lines)

#### file.seek(0)

#### noOfchars=len(file.read())

#### file.seek(0)

#### noOfWords=len(file.read().split())

#### print("Number of characters: ",noOfchars)

#### print("Number of words: ",noOfWords)

#### print("Number of lines: ",noOflines)

#### charsWordslines(file)

Number of characters: 640

Number of words: 123

Number of lines: 24

#### 7. Write a program to accept string/sentences from the user till the user enters “END” to. Save the data in a text file and then display only those sentences which begin with an uppercase alphabet.

#### def addingUpperCaseAlphabetSentencesToFile(file):

#### listOfsentences=[]

#### listOfAlphabets=['A','B','C','D','E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z']

#### while True:

#### choice=input("Enter 'END' to stop giving inputs or anything to continue: ").upper()

#### if (choice!= 'END'):

#### sentence=input("Enter string/sentence to be added to file (only those sentences which begin with an uppercase alphabet added to file: ")

#### for Alphabet in listOfAlphabets:

#### if(sentence[0]==Alphabet):

#### listOfsentences.append(sentence)

#### else:

#### break

#### print("list of Sentences: ",listOfsentences)

#### for i in listOfsentences:

#### file.write(i)

#### file.write("\n")

#### f=open("UpperCaseAlphabetSentences.txt","w")

#### addingUpperCaseAlphabetSentencesToFile(f)

#### f=open("UpperCaseAlphabetSentences.txt","r")

#### print(f.read())

#### f.close()

#### 8. Write a program to enter the following records in a binary file:

Item No integer

Item\_Name string

Qty integer

Price float

Number of records to be entered should be accepted from the user. Read the file to display the records in the following format:

Item No:

Item Name :

Quantity:

Price per item:

Amount: ( to be calculated as Price \* Qty)

#### import pickle

#### file=open("Question8.dat","wb")

#### print("Entering records: ")

#### record=1

#### while True:

#### print("Record: ",record)

#### Qty=float(input("Enter Quantity: ") )

#### P=float(input("Enter Price: "))

#### ItemNo=int(input("Enter item no: "))

#### Amount=P\*Qty

#### print("Amount: ",Amount)

#### ItemData=[ItemNo,Qty,P,Amount]

#### pickle.dump(ItemData,file)

#### ans=input("Enter other than 'N' to continue entering records: ")

#### record=record+1

#### if(ans.upper()=='N'):

#### print("Entry is done and data is dumped to binary file 'Question8.dat'.")

#### break

#### print("Size of binary file: ",file.tell())

#### file.close()

#### print()

#### readRec=1

#### print("Reading records: ")

#### with open("Question8.dat","rb") as file:

#### for i in range(record-1):

#### data=pickle.load(file)

#### print("Record No: ",readRec)

#### print(data)

#### readRec+=1

#### file.close()