Computer Science Program File

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Submitted by:

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CERTIFICATE

This is to certify that Manas Gupta of class XII of Sachdeva Public School, Rohini, Delhi has completed his/her program file under my guidance. He has taken proper care and shown utmost sincerity in completing this project. I certify that this program file is up to my expectations and as per the guidelines issued by CBSE.

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Mrs. Nimisha Sharma

(computer teacher)

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PYTHON PROGRAMS

1. Write a program that uses a function to print all the prime numbers up to given number, where number is passed as parameter to the function

   Source code

```
def prime(a):
    list1=[2,]
    code="prime"
    if a<=0:
            print("please input a valid natural number")
    else:
            for num in range(3,a+1):

                for i in range(2,num):
                    if num%i!=0:
                        code="prime"

                    elif num%i==0:
                        code="non prime"

                        break
                if code=="prime":
                    list1.append(num)

            for s in list1:
                print(s)
b=int(input("enter a number"))
prime(b)
```

   Output

```
enter a number20
2
3
5
7
11
13
17
19
```

```
enter a number50
2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
```

2. Write a program that uses a function to find total number of positive negative and zeros in tuple

Source code

```
def countval(t):
    z=0
    p=0
    n=0
    for i in t:
        if (i)==0:
            z=z+1
        elif (i)>0:
            p=p+1
        elif (i)<0:
            n=n+1
    print("the number of values that are zero:",z)
    print("the number of values that are positive:",p)
    print("the number of values that are negative:",n)

tup=eval(input("enter a tuple"))
countval(tup)
```

Output

```
enter a tuple(11,13,45,0,0,0)
the number of values that are zero: 3
the number of values that are positive: 3
the number of values that are negative: 0
enter a tuple(1,2,34,56,0,0,0,-3,-4,-5)
the number of values that are zero: 3
the number of values that are positive: 4
the number of values that are negative: 3
```

3. Write a program that uses a function to create a dictionary with student name as key and aggregate marks as the value and search any student and print aggregate marks.

Source code

```
def student():
    print("enter the records of students")
    std={}
    while True:
        name=input("enter the name")
        marks=float(input("enter the aggregate marks"))
        std[name]=marks
        print(std)
        print("record added")
        r=input("do you want to enter more records --Y/N")
        if r in "nN":
            break
    print(std)###
    s=input("do you want to search records? Y/N")
    if s in "yY":
        n=str(input("enter the name of the student"))
        output=std[n]
        print("the student is:",n,"and the aggregate marks is:",output)
        print("program ended")
    else:
        print("program ended")
student()
```

Output

```
enter the records of students
enter the namemohan
enter the aggregate marks78
{'mohan': 78.0}
record added
do you want to enter more records --Y/Ny
enter the nameram
enter the aggregate marks90
{'mohan': 78.0, 'ram': 90.0}
record added
do you want to enter more records --Y/Nn
{'mohan': 78.0, 'ram': 90.0}
do you want to search records? Y/Ny
enter the name of the studentmohan
the student is: mohan and the aggregate marks is: 78.0
program ended
```

```
enter the records of students
enter the namegita
enter the aggregate marks87
{'gita': 87.0}
record added
do you want to enter more records --Y/Ny
enter the nameseema
enter the aggregate marks95
{'gita': 87.0, 'seema': 95.0}
record added
do you want to enter more records --Y/Nn
{'gita': 87.0, 'seema': 95.0}
do you want to search records? Y/Ny
enter the name of the studentseema
the student is: seema and the aggregate marks is: 95.0
program ended
```

4.

4.Write a program that uses a function to find second largest element in a list.

Source code

```
def second(list1):
    num=0
    list1.sort()
    ind=len(list1)-1
    num=list1[ind]
    list1.remove(num)
    list1.sort()
    ind=len(list1)-1
    num=list1[ind]
    print("the second largest number in the list is", num)
l=eval(input("enter the list"))
second(l)
```

Output

```
enter the list[1,23,34,45,75,56,90,144,256]
the second largest number in the list is 144
enter the list[-1,-2,-3,-56,100,234,256]
the second largest number in the list is 234
```

5.Write a program to check a number is Armstrong number or not using function.

Source code

```
def armstrong(x):
    y=str(x)
    a=len(y)
    z=0
    for i in range(0,a):
        p=int(y[i])**3
        z=p+z
    if z==int(x):
        print("the given number is an armstrong number")
    else:
        print("the given number is not an armstrong number")
a=int(input("enter your number"))
armstrong(a)
```

Output

```
enter your number153
the given number is an armstrong number
enter your number23
the given number is not an armstrong number
```

5.

6. Write a program to print n terms of a Fibonacci series using function.

Source code

```
def fibonacci(n):
    a=0
    b=1
    c=0
    if n==1:
        print("1")
    elif n>1:
        print("1")
        for i in range(0,n-1):
            a=b+c
            c=b
            b=a
            print(a)
term=int(input("enter the number of terms for fibonacci"))
fibonacci(term)
```

Output

```
enter the number of terms for fibonacci5
1
1
2
3
5
enter the number of terms for fibonacci10
1
1
2
3
5
8
13
21
34
55
```

7. Write a program that uses a function to find number of odd and even numbers in a tuple.

Source code

```
def tup(t):
    odd=0
    even=0
    for i in t:
        if i%2==0:
            even=even+1
        elif i%2!=0:
            odd=odd+1
    print("number of odd numbers are:",odd)
    print("number of even numbers are:",even)
a=eval(input("enter a valid tuple"))
tup(a)
```

6.

Output

```
enter a valid tuple(1,2,3,4,5,6,7,8,9,10,11,12)
number of odd numbers are: 6
number of even numbers are: 6
```

```
enter a valid tuple(1,3,5,7,9,11,2,20,10,8,6,2,19)
number of odd numbers are: 7
number of even numbers are: 6
```

8.Write a python program using function to test if a string is palindrome or not where string is passed as parameter to the function.

Source code

```
def palindrome(x):
    for i in range(0,len(x)):
        if x[i]==x[len(x)-1-i]:
            p=None
        elif x[i]!=x[len(x)-1-i]:
            p=5
            break
    if p==5:
        print("not palindrome")
    if p==None:
        print("palindrome")
st=input("enter the string")
palindrome(st)
```

Output

```
enter the stringrotor
palindrome
```

```
enter the stringphone
not palindrome
```

7.

9.Write a program using function to store and print all positive numbers first then negative numbers then zeros of a list.

Source code

```
def nlist(list1):
    p=[]
    n=[]
    zero=[]
    for i in list1:
        if i>0:
            p.append(i)
        elif i<0:
            n.append(i)
        elif i==0:
            zero.append(i)
    print("the positive numbers of the list are:",p)
    print("the negative numbers of the list are:",n)
    print("the zeroes of the list are:",zero)
a=eval(input("enter the list"))
nlist(a)
```

Output

```
enter the list[1,2,3,0,4,5,-2,-34,-90,-56,100]
the positive numbers of the list are: [1, 2, 3, 4, 5, 100]
the negative numbers of the list are: [-2, -34, -90, -56]
the zeroes of the list are: [0]
enter the list[10,20,30,0,0,-10,-20,-30]
the positive numbers of the list are: [10, 20, 30]
the negative numbers of the list are: [-10, -20, -30]
the zeroes of the list are: [0, 0]
```

10. Write a program that uses a function to count number of words in a string.

Source code

```
def words(s):
    space=s.split()
    count=len(space)
    print("the number of words in the string are:",count)
a=input("enter the string")
words(a)
```

8.

Output

```
enter the stringmy name is wendy
the number of words in the string are: 4
enter the stringi am currently living in delhi
the number of words in the string are: 6
```

11.Write a program to write and read employee information such as name, salary and department in employee.csv file.

Source code

```
def write():
    import csv
    f=open("employee.csv",'a+',newline="")
    emp_writer=csv.writer(f)
    s_reader=csv.reader(f)
    for i in s_reader:
        if i==["Name","Salary","Department"]:
            break
        else:
            f.seek(0)
            emp_writer.writerow(["Name","Salary","Department"])
    rec=[]
    while True:
        name=input("enter employee name")
        salary=float(input("enter the employee salary"))
        dept=input("enter the department")
        temp=[name,salary,dept]
        rec.append(temp)
        ch=input('do you want to enter more records Y/N?')
        if ch in "nN":
            break
    for i in rec:
        emp_writer.writerow(i)
    f.close()

def read():
    import csv
    f=open("employee.csv","r",newline="")
    s_reader=csv.reader(f)
    for i in s_reader:
        print(i)
    f.close()

while True:
    response=input("do you want to read or write records R/W?")
    if response in "rR":
        read()
    if response in "Ww":
        write()
```

9.

Output

```
-- RESTART: C:\Users\Aadi\AppData\Local\Program
do you want to read or write records R/W?r
['Name', 'Salary', 'Departmnet']
['ram', '10000.0', 'sales']
['sita', '100000.0', 'lab']
['mohan', '12000.0', 'advertisement']
['hijy', '60000.0', 'headsales']
['hari', '80000.0', 'humanresources']
['megha', '78000.0', 'salespitch']
do you want to read or write records R/W?w
enter employee nameganesh
enter the employee salary10000
enter the departmentassistant manager
do you want to enter more records Y/N?n
do you want to read or write records R/W?r
['Name', 'Salary', 'Departmnet']
['ram', '10000.0', 'sales']
['sita', '100000.0', 'lab']
['mohan', '12000.0', 'advertisement']
['hijy', '60000.0', 'headsales']
['hari', '80000.0', 'humanresources']
['megha', '78000.0', 'salespitch']
['ganesh', '10000.0', 'assistant manager']

do you want to read or write records R/W?w
enter employee nameravi
enter the employee salary25000
enter the departmentsoftware
do you want to enter more records Y/N?n
do you want to read or write records R/W?r
['Name', 'Salary', 'Departmnet']
['ram', '10000.0', 'sales']
['sita', '100000.0', 'lab']
['mohan', '12000.0', 'advertisement']
['hijy', '60000.0', 'headsales']
['hari', '80000.0', 'humanresources']
['megha', '78000.0', 'salespitch']
['ganesh', '10000.0', 'assistant manager']
['ravi', '25000.0', 'software']
```

12.Write a program to write, read and search a particular employee information in binary file (perform the search based on employe id field of employee.dat).

Source code

```
def write():
    import pickle
    f=open("employee.dat","ab+")
    record=[]
    while True:
        empid=int(input("enter the employee id"))
        name=input("enter the name")
        dept=input("enter the department")
        salary=float(input("enter the salary"))
        temp=[empid,name,dept,salary]
        record.append(temp)
        print("record added")
        ch=input("Do you want to enter more records? Y/N")
        if ch in "nN":
            break
    pickle.dump(record,f)
    f.close

def read():
    print("The records are:")
    print("EMPLOYEE ID","NAME","DEPARTMENT","SALARY")
    import pickle
    f=open("employee.dat","rb")
    try:
        while True:
            s=pickle.load(f)
            c=len(s)
            for i in s:
                for j in i:
                    print(j,end=" | ")
                print()
    except:
        f.close()
```

```
def searchid():
    import pickle
    f=open("employee.dat","rb+")
    s=[]
    try:
        while True:
            s=s+pickle.load(f)
    except:
        f.close()
    id=int(input("enter the employee id you want to search"))
    for i in s:
        if i[0]==id:
            print("record found and the details are:")
            print(i)

            break
    else:
        print("The given id doesn't match")
```

```
while True:
    print("To enter the records press W")
    print("To read  the records press R")
    print("To search the records by id press S")
    ch=input("enter your response")
    if ch in "wW":
        write()
    elif ch in "rR":
        read()
    elif ch in "Ss":
        searchid()
```

Output

```
To enter the records press W
To read  the records press R
To search the records by id press S
enter your responser
The records are:
EMPLOYEE ID NAME DEPARTMENT SALARY
1 | ram | A | 10000.0 |
2 | mohan | B | 15000.0 |
3 | geeta | C | 20000.0 |
To enter the records press W
To read  the records press R
To search the records by id press S
enter your responses
enter the employee id you want to search3
record found and the details are:
[3, 'geeta', 'C', 20000.0]
```

```
To enter the records press W
To read  the records press R
To search the records by id press S
enter your responsew
enter the employee id4
enter the namerita
enter the departmentE
enter the salary27000
record added
Do you want to enter more records? Y/Nn
```

13.Write a program to update the name of student by using its roll number in a binary file.

Source code

```
import pickle
def updaterecord():          #this function updates the existing records
    f=open("student.dat","rb+")
    s=pickle.load(f)
    print("the current records are")
    for i in s:
        for j in i:
            print(j,end="|")
        print()
    found=0
    rollno=int(input("enter the roll number"))
    try:
        for i in s:
            if i[0]==rollno:
                found=1
                print("name",i[1])
                ch=input("Do you want to change the name?(Y/n)")
                if ch in "yY":
                    i[1]=str(input("enter the name of the student"))
                    print("updation is done")
    except:

            print("record not found")

    f.seek(0)
    pickle.dump(s,f)
    f.close()
```

```
ch=input("do you wish to update a record? Y/N")
if ch in "Yy":
    updaterecord()
else:
    print("program terminated")
```

Output

```
do you wish to update a record? Y/Ny
the current records are
1|marie|
2|chris|
3|johnathon|
4|tom|
5|tony|
enter the roll number3
name johnathon
Do you want to change the name?(Y/n)y
enter the name of the studentjohn
updation is done
do you wish to update a record? Y/Ny
the current records are
1|marie|
2|chris|
3|john|
4|tom|
5|tony|
enter the roll number2
name chris
Do you want to change the name?(Y/n)y
enter the name of the studentchristopher
updation is done
```

14.Write a program to delete a record from binary file.

Source Code

```
def deleterecord():     #this function deletes the existing records
    import pickle
    f=open("file.dat","rb+")
    s=[]
    t=[]
    u=[]
    try:
        while True:
            t=pickle.load(f)
            print(t)
    except:
        print("records printed")
    try:
        f.seek(0)
        while True:
            s=pickle.load(f)
            u.append(s)
    except:
        pass
    print(u)
    r=int(input("enter the record ID you want to delete"))
    recl=[]
    try:
        for i in range(0,len(u)):
            if u[i][0]==r:
                print("="*80)
                ch=input("Are your sure you want to delete(Y/N)??")
                if(ch in "yY"):
                    print()
                    print("After this data will be permanently deleted in file")
                    print("The deleted record is:")
                    print(u.pop(i))
                    print()
                print("record deleted. Kindly check it")
                print("="*80)
                break
    except:
            print("record not found")
    f.seek(0)
    pickle.dump(u,f)
    f.close()
```

```
deleterecord()
```

Output

```
['ID', 'NAME', 'CLASS', 'AGE']
[1, 'ram', 7, 12]
[2, 'shyam', 8, 13]
[3, 'seema', 9, 14]
records printed
[['ID', 'NAME', 'CLASS', 'AGE'], [1, 'ram', 7, 12], [2, 'shyam', 8, 13], [3, 'seema', 9, 14]]
enter the record ID you want to delete2
================================================================================
Are your sure you want to delete(Y/N)??y

After this data will be permanently deleted in file
The deleted record is:
[2, 'shyam', 8, 13]

record deleted. Kindly check it
================================================================================
['ID', 'NAME', 'CLASS', 'AGE']
[1, 'ram', 7, 12]
[2, 'shyam', 8, 13]
[3, 'seema', 9, 14]
records printed
[['ID', 'NAME', 'CLASS', 'AGE'], [1, 'ram', 7, 12], [2, 'shyam', 8, 13], [3, 'seema', 9, 14]]
enter the record ID you want to delete1
================================================================================
Are your sure you want to delete(Y/N)??y

After this data will be permanently deleted in file
The deleted record is:
[1, 'ram', 7, 12]

record deleted. Kindly check it
================================================================================
```

15.Write a program to write and read student information in student.csv file.

Source code

```
def write():
    import csv
    f=open("student.csv",'a+',newline="")
    s_writer=csv.writer(f)
    s_writer.writerow(["Name","Class","Stream"])
    rec=[]
    while True:
        name=input("enter student name")
        c=int(input("enter the student class"))
        stream=input("enter the stream")
        temp=[name,c,stream]
        rec.append(temp)
        ch=input('do you want to enter more records Y/N?')
        if ch in "nN":
            break
    for i in rec:
        s_writer.writerow(i)
    f.close()

def read():
    import csv
    f=open("student.csv","r",newline="")
    s_reader=csv.reader(f)
    for i in s_reader:
        print(i)
    f.close()

while True:
    response=input("do you want to read or write records R/W?")
    if response in "rR":
        read()
    if response in "Ww":
        write()
```

Output

```
do you want to read or write records R/W?r
['Name', 'Class', 'Stream']
['ram', '4', 'sci']
['mohan', '4', 'comp']
['seema', '5', 'maths']
['raj', '7', 'eng']
do you want to read or write records R/W?w
enter student namemarie
enter the student class12
enter the streamscience
do you want to enter more records Y/N?y
enter student namemukesh
enter the student class12
enter the streamcommerce
do you want to enter more records Y/N?n
do you want to read or write records R/W?w
enter student namehari
enter the student class12
enter the streamarts
do you want to enter more records Y/N?y
enter student namesohan
enter the student class12
enter the streameng literature
do you want to enter more records Y/N?n
```

16.Write a program to count the number of times the occurrence of 'is' word in a text file.

Source code

```
def county():
    myfile=open("file.txt","r")
    list1=myfile.readlines()
    temp=[]
    rec=[]
    count=list1.count("\n")
    for i in range(0,count):
        list1.remove("\n")
    for i in list1:
        i.strip
        temp=i.split()
        rec=rec+temp
    print("the list of words are")
    print(rec)
    countfinal=rec.count("is")
    print("the number of \"is\" are:",countfinal)
    myfile.close

county()
```

Output

```
the list of words are
['He', 'is', 'a', 'wonderful', 'man.', 'He', 'is', 'said', 'to', 'be', 'the', 'i
nventor', 'of', 'paper.', 'He', 'is', 'a', 'chinese', 'inventor', 'from', 'the',
 '17th', 'century.He', 'lives', 'in', 'a', 'small', 'house', 'which', 'is', 'clo
se', 'to', 'the', 'countryside.', 'He', 'is', 'regarded', 'as', 'one', 'of', 'th
e', 'greatest', 'minds.', 'His', 'inventions', 'are', 'truly', 'remarkable.', 'N
o', 'one', 'has', 'ever', 'even', 'seen', 'anyone', 'like', 'him.']
the number of "is" are: 5
```

```
the list of words are
['He', 'is', 'a', 'wonderful', 'man.', 'He', 'is', 'said', 'to', 'be', 'the', 'i
nventor', 'of', 'paper.', 'He', 'is', 'a', 'chinese', 'inventor', 'from', 'the',
 '17th', 'century.He', 'lives', 'in', 'a', 'small', 'house', 'which', 'is', 'clo
se', 'to', 'the', 'countryside.', 'He', 'is', 'regarded', 'as', 'one', 'of', 'th
e', 'greatest', 'minds.', 'His', 'inventions', 'are', 'truly', 'remarkable.', 'H
e', 'is', 'said', 'to', 'be', 'ahead', 'of', 'his', 'time.']
the number of "is" are: 6
```

17.Create a binary file with name and roll number of student and display the data by reading the file.

Source code

```
def write():
    import pickle
    f=open("student.dat","ab+")
    record=[]
    while True:
        rolln=int(input("enter the roll number"))
        name=input("enter the name")
        temp=[rolln,name,]
        record.append(temp)
        print("record added")
        ch=input("Do you want to enter more records? Y/N")
        if ch in "nN":
            break
    pickle.dump(record,f)
    f.close


def read():
    print("The records are:")
    print("ROLLNUMBER","NAME",)
    import pickle
    f=open("student.dat","rb")
    try:
        while True:
            s=pickle.load(f)
            c=len(s)
            for i in s:
                for j in i:
                    print(j,end=" | ")
                print()
    except:
        f.close()

ch=input("do you want to read or write R/W")
if ch in "rR":
    read()
if ch in "wW":
    write()
```

Output

```
do you want to read or write R/Wr
The records are:
ROLLNUMBER NAME
1 | marie |
2 | chris |
3 | johnathon |
4 | tom |
5 | tony |
do you want to read or write R/Ww
enter the roll number6
enter the nameRobert
record added
Do you want to enter more records? Y/Nn
```

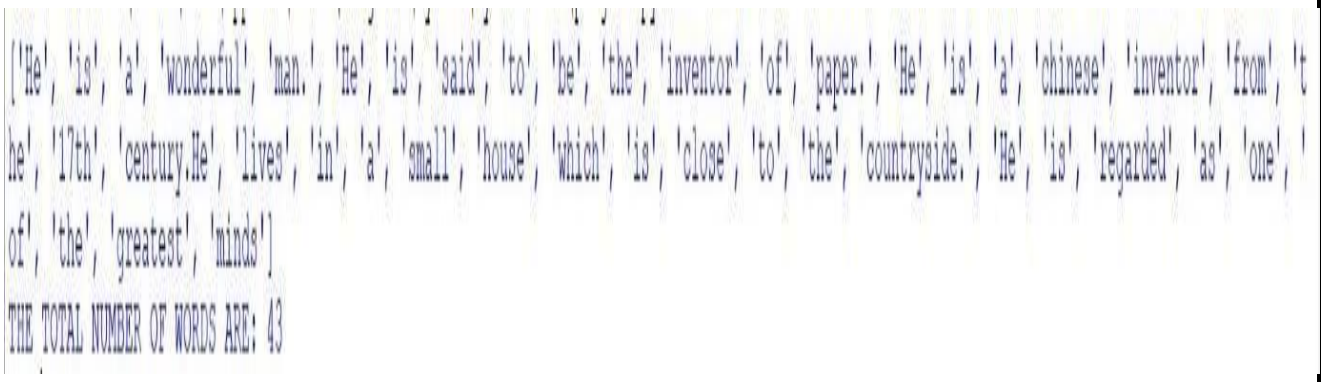
18.Write a program to count total number of words in a text file.

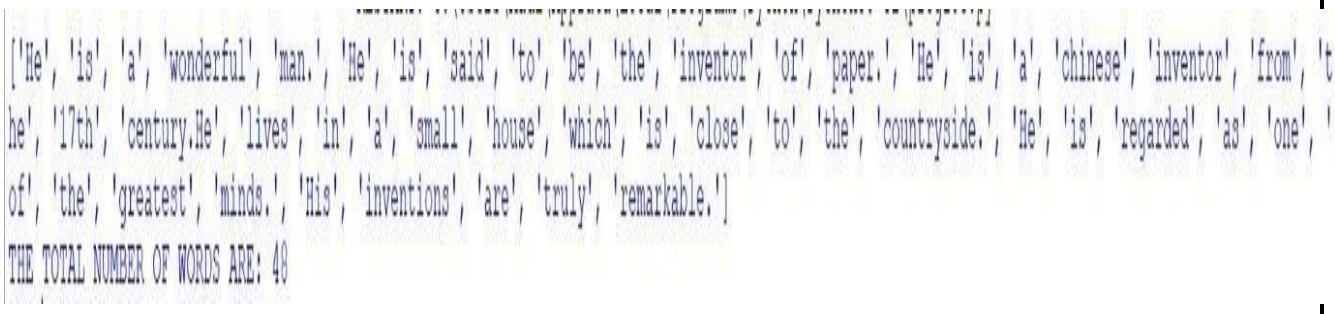
Source code

```
def county():
    myfile=open("file.txt","r")
    list1=myfile.readlines()
    temp=[]
    rec=[]
    count=list1.count("\n")
    for i in range(0,count):
        list1.remove("\n")
    for i in list1:
        i.strip
        temp=i.split()
        rec=rec+temp
    words=len(rec)
    print("THE TOTAL NUMBER OF WORDS ARE:",words)
    myfile.close()


county()
```

Output





19.Write a program to count the number of vowels present in a text file.

Source code

```
def county():
    myfile=open("file.txt","r")
    list1=myfile.readlines()
    temp=[]
    rec=[]
    vowel=0
    count=list1.count("\n")
    for i in range(0,count):
        list1.remove("\n")
    for i in list1:
        i.strip
        temp=i.split()
        rec=rec+temp

    for j in rec:
        for k in j:
            if k in "aeiouAEIOU":
                vowel=vowel+1
    print("THE TOTAL NUMBER OF VOWELS ARE:",vowel)

county()
```

Output

```
['He', 'is', 'a', 'wonderful', 'man.', 'He', 'is', 'said', 'to', 'be', 'the', 'inventor', 'of', 'paper.', 'He', 'is', 'a', 'chinese', 'inventor', 'from', 't
he', '17th', 'century.He', 'lives', 'in', 'a', 'small', 'house', 'which', 'is', 'close', 'to', 'the', 'countryside.', 'He', 'is', 'regarded', 'as', 'one', '
of', 'the', 'greatest', 'minds.', 'His', 'inventions', 'are', 'truly', 'remarkable.']
THE TOTAL NUMBER OF VOWELS ARE: 78
```

```
['He', 'is', 'a', 'wonderful', 'man.', 'He', 'is', 'said', 'to', 'be', 'the', 'inventor', 'of', 'paper.', 'He', 'is', 'a', 'chinese', 'inventor', 'from', 't
he', '17th', 'century.He', 'lives', 'in', 'a', 'small', 'house', 'which', 'is', 'close', 'to', 'the', 'countryside.', 'He', 'is', 'regarded', 'as', 'one', '
of', 'the', 'greatest', 'minds.', 'His', 'inventions', 'are', 'truly', 'remarkable.', 'No', 'one', 'has', 'ever', 'even', 'seen', 'anyone', 'like', 'him.']
THE TOTAL NUMBER OF VOWELS ARE: 94
```

20.Write a program to count and print words having ‘y’ in a text file story.txt.

Source code

```
def county():
    myfile=open("story.txt","r")
    list1=myfile.readlines()
    temp=[]
    rec=[]
    finalcount=0
    count=list1.count("\n")
    for i in range(0,count):
        list1.remove("\n")
    for i in list1:
        i.strip
        temp=i.split()
        rec=rec+temp
    print(rec)
    print("the number of words having y are")
    for j in rec:
        if "y" in j or "Y" in j:
            print(j)
            finalcount+=1
    print("THE FINAL NUMBER OF WORDS THAT CONTAIN y/Y are:",finalcount)


county()
```

Output

```
['he', 'is', 'a', 'man', 'of', 'the', 'worry.', 'yes', 'he', 'is', 'smart.', 'ye
s', 'he', 'is', 'messy.', 'yes', 'he', 'is', 'shy.']
the number of words having y are
worry.
yes
yes
messy.
yes
shy.
THE FINAL NUMBER OF WORDS THAT CONTAIN y/Y are: 6
-- RESTART: C:\Users\Aadi\AppData\Local\Programs\Python\Python36-32\prog20c.py -
['he', 'is', 'a', 'man', 'of', 'the', 'worry.', 'yes', 'he', 'is', 'smart.', 'ye
s', 'he', 'is', 'messy.', 'yes', 'he', 'is', 'shy.', 'yes', 'he', 'is', 'differe
nt.']
the number of words having y are
worry.
yes
yes
messy.
yes
shy.
yes
THE FINAL NUMBER OF WORDS THAT CONTAIN y/Y are: 7
```