

24-9-25

Task 8 Implement various txt/csv file operations

Aim: To write a Python program for creating and updating student registration details using txt file operations

Step 1 Start

Step 2 Using open() method. Create and write text file.

Step 3 Update the new registered student details using append operation in it

Step 4 Open the file in read mode and using read()

Step 5 Using seek method point the particular record

Step 6 Using tell method point the current position of the file

Step 7 Stop

```
file=open("student1.txt","w")
```

```
input1=input("Enter columns name\n")
```

```
file.write(input1)
```

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

```
n=int(input("Enter columns name\n"))
```

```
file.write(input1)
```

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

```
n=int(input("Enter the no of students"))
```

```
for i in range(0,n):
```

out put of program is given as
2305 RAM 20
1920 SHIVA 21
out Put :

UTU NO	NAME	Age
2305	RAM	20
1920	SHIVA	21

The length of first line is: 15

Output of Readline

2305 ("RAM" 20)
find the current position of file pointer: 24

("n") 58183, 017

("n") 58183, 017

("n") 58183, 017

("n") 58183, 017

```
# input2 = input("Enter students details  
with \n or new")
```

```
file.write(input2)
```

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

```
file = open("student1.txt", "a")
```

```
input3 = input("Enter updated students details\n")
```

```
file.write(input3)
```

```
file = open("student1.txt", "a")
```

```
print("Student details using Read function is:")
```

```
print(file.read())
```

```
print("\n")
```

```
file.seek(0)
```

```
print("The length of first line is:")
```

```
line = file.readline()
```

```
len = len(line)
```

```
print(len)
```

```
file.seek(len+1)
```

```
print("Output of readline(first student record)  
function is:")
```

```
print(file.readline())
```

```
print("\n Find the current position of file pointer:")
```

```
q = file.tell()
```

```
print(q)
```

```
file.close()
```

Result: Thus, the Python program for creating
and updating student registration details using
file operations was executed successfully.

Q2 counting cases

Input

file name: merge.txt

Output: 3, 48, 4

#Step 1: Create and write content to the file

with open ("merge.txt", "w") as f:

f.write("Python is a high level language, developed
by Guido van Rossum in 1991")

Step 2: Open the file for reading

with open ("merge.txt", "r") as f:

text = f.read()

Step 3: Initialize counters

upper - count = 0

lower - count = 0

digit - count = 0

Step 4: Count uppercase, lowercase, and digits

for char in text

if char.isupper():

upper - count += 1

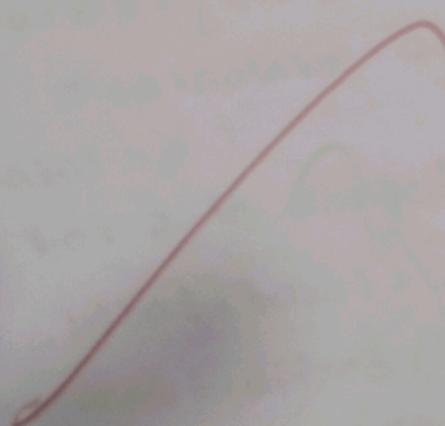
elif char.islower():

lower - count += 1

elif char.isdigit():

digit - count += 1

```
#step 3: print the result  
print ("Uppercase letters:", upper-count)  
print ("Lowercase letters:", lower-count)  
print ("Digits:", digit-count)  
  
# compact output as required  
print ({upper-count}, {lower-count}, {digit-count})
```



out Pub

Gaurav -> 169.0

Abhinav -> 138.0

Havard -> 182.0

Sai -> 163.0

Savi -> 188.0

63 construct a python program to read the above table of students' grades from a text file calculate average grade

program to read students' grades from a file, calculate averages, and save result

step 1: read input data from grades.txt

with open("grades.txt", "r") as f:

lines = f.readlines()

step 2: Extract number of students

n = int(lines[0].strip())

step 3: Extract weights

weight = lines[1].strip().split()

weight = [float(w) for w in weight]

step 4: process each student's data

students = []

for i in range(2, 2+n):

parts = lines[i].strip().split()

name = parts[0]

marks = [int(m) for m in parts[1:]]

calculate weighted average

total = 0

for j in range(n):

total = total + marks[j] * weight[j]

students.append((name, round(total, 2)))

step 5: write result

with open("result.txt", "w") as f:

f.write(name + "

EX NO.	RESULTS
PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
VIVA VOCE (5)	
RECORD (5)	RESULTS (avg) + "\n"
TOTAL (20)	
SIGN WITH DATE	

Result :- Hence The txt

and ans files are done successfully.