

Task - 9 Implement various txt / csv file operations

Q.1:

Aim: To write a Python Program for creating and updating Student registration details using txt file operations.

Algorithm:

1. Start
2. Using `open()` method, create and write text file "myfile.txt" with Student details.
3. Update the new registered student details using `append` operation in it.
4. Open the file in `read` mode and using `read()` method print the Student details.
5. Using `seek` method print the particular student record.
6. Using `tell` method print the current position of the file.
7. Close the file.
8. Stop.

Program

```
file = open("student 1.txt", "w")
```

```
input 1 = input("Enter column name: ")
```

```
file.write(input 1)
```

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

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

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

```
    input 2 = input("Enter student details with for row")
```

```
    for i in input 2:
```

```
        file.write(i)
```

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

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

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

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

```
print(len)
```


Output:

Student Details using Read function is:

VRU NO	NAME	AGE
2305	RAM	20
9920	SHIVA	21
2305	RAM	20
9920	SHIVA	21

The length of first line is:

15

Output of Readline (first Student record) function is:

2305 RAM 20

fin & the current position of file pointer:

29


```

file.seek(0)
Print ("Output of readline (first student record) function is:")
Print (file.readline())
Print ("In find the current position of file pointer:")
f = file.tell()
Print (f)
file.close()

```

CSE	
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	
SIGN WITH DATE	15

✓

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

Q2: Counting cases

Construct a python program whose file name is "merge.txt". To write the below content inside of the file.

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

Count the total number of upper case, lower case, and digits used in the text file "merge.txt".

Input:

File name: merge.txt

Output: 5, 48, 4

Program:

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

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

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

text = f.read()

upper_count = 0

lower_count = 0

digit_count = 0

for char in text:

if char.isupper():

upper_count += 1

elif char.islower():

lower_count += 1

elif char.isdigit():

digit_count += 1

Print ("upper case letters:", upper_count)

Print ("lower case letters:", lower_count)

Print ("digits:", digit_count)

Print (f"upper-count: {upper_count}, lower-count: {lower_count}, digit-count: {digit_count}")

Q.3 Avg grade:

A veltech faculty assigns the following weightage of marks/grade on four assignments for five students in the python course

Program:

```
n = int(input("Enter number of students:"))
```

```
print("Enter 4 assignments weightages:")
```

```
weights = []
```

```
for i in range(4):
```

```
    w = float(input(f"Weight {i+1}:"))
```

```
    weights.append(w)
```

```
students = []
```

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

```
    print(f"Enter name of student {i+1}:")
```

```
    name = input()
```

```
    marks = []
```

```
    for j in range(4):
```

```
        m = int(input(f"Enter mark {j+1} for {name}:"))
```

```
        marks.append(m)
```

```
    students.append([name]+marks)
```

```
Print('Average grades')
```

```
for student in students:
```

```
    name = student[0]
```

```
    marks = student[1:]
```

```
    total = 0
```

```
    for j in range(4):
```

```
        total = total + marks[j]*weights[j]
```

```
Print(name, " → Average Grade: ", round(total, 2))
```

VEL TECH - CSE	
EX NO.	7
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	15
SIGN WITH DATE	

Result: Thwithe

Python Program

for Creating and updating
Book registration using text file. Operations is executed successfully