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### Python Programming - 2301CS404

Lab - 9

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### File I/O

- 01) WAP to read and display the contents of a text file. (also try to open the file in some other directory)
- in the form of a string
- line by line
- in the form of a list

```
In [12]: fp = open("file1.txt","r")
    print(fp.read())
    print(fp.readline())
    print(fp.readlines())
    fp.close()
```

Jay mataji from Rudrarajsinh Jadeja

[]

02) WAP to create file named "new.txt" only if it doesn't exist.

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```
In [46]: fp = open("new.txt","r")
    print(fp.read())
    fp.close()
```

Khamma ghani this is Rudrarajsinh Jadeja

#### 03) WAP to read first 5 lines from the text file.

```
In [54]: fp = open("field.txt","r")
    for i in range(5):
        print(fp.readline().strip())
    fp.close()

Jadeja
    jbdfkswf
    fklkwnfls
    lkndlgled
    klndl
```

#### 04) WAP to find the longest word(s) in a file

```
In [61]: fp = open("field.txt","r")
x = max(fp.read().split(),key = len)
print(x)
```

Rudrarajsinh

## 05) WAP to count the no. of lines, words and characters in a given text file.

```
In [67]: fp = open("field.txt","r")
    print(len(fp.read()))
    print(len(fp.read().split()))

45
0
```

#### 06) WAP to copy the content of a file to the another file.

```
In [79]: fp = open("field.txt","r")
    x1=fp.read()
    fp1 = open("field2.txt","w")
    fp1.write(x1)
    print(x1)
    fp1.close()

Jadeja
Rudrarajsinh
fklkwnfls
lkndlgled
klndl
```

### 07) WAP to find the size of the text file.

```
In [81]: import os
    fp = open("field.txt","r")
```

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```
file_size = os.path.getsize('field.txt')
print("File Size is :", file_size, "bytes")
```

File Size is: 45 bytes

## 08) WAP to create an UDF named frequency to count occurances of the specific word in a given text file.

```
In [2]: def frequency(FileName, word):
    with open(FileName, "r") as fp:
        lines = fp.readlines()
        words = [w for line in lines for w in line.strip().split()] # Flatten t
    print(f"Occurrence of '{word}' = {words.count(word)}")

FileName = input("Enter File Name: ")
    word = input("Enter word: ")
    frequency(FileName, word)
```

Occurrence of 'Jay' = 1

# 09) WAP to get the score of five subjects from the user, store them in a file. Fetch those marks and find the highest score.

```
In [92]: fp = open("field.txt","w+")

for i in range(5):
    h1 = input("enter the 1 subject mark:-")
    fp.write(h1+" ")

fp.close()
fp = open("field.txt","r+")
# print(fp.read())
a=fp.read()
b=a.split()
print(a)
print(max(b))
1 2 3 4 5
```

## 10) WAP to write first 100 prime numbers to a file named primenumbers.txt

(Note: each number should be in new line)

```
In [1]:
    def is_prime(n):
        if n < 2:
            return False
        for i in range(2, int(n**0.5) + 1):
            if n % i == 0:
                return False
        return True

def write_primes_to_file(filename, count):
    primes = []
    num = 2
    while len(primes) < count:</pre>
```

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#### 11) WAP to merge two files and write it in a new file.

```
In [85]: fp = open("field.txt","r")
         fp1 = open("field2.txt","r")
         str1 = fp.read()
         str1 = str1 + "\n" + fp1.read()
         fp2 = open("field3.txt","w")
         fp2.write(str1)
         print(str1)
         fp2.close()
        Jadeja
        Rudrarajsinh
        fk1kwnf1s
        lkndlgled
        klndl
        Jadeja
        Rudrarajsinh
        fklkwnfls
        lkndlgled
        klndl
```

## 12) WAP to replace word1 by word2 of a text file. Write the updated data to new file.

```
In [87]: fp = open("field.txt","r")
    x1=fp.read()
    print(x1)
    a=x1.replace("Rudrarajsinh","Jadeja")
    fp1 = open("field2.txt","w")
    fp1.write(a)
    fp1.close()

Jadeja
Rudrarajsinh
fklkwnfls
lkndlgled
klndl
```

# 13) Demonstrate tell() and seek() for all the cases(seek from beginning-end-current position) taking a suitable example of your choice.

```
In [89]: fp = open("field.txt","r")
    print("Before reading pointer is at:", fp.tell())
    fp.read(2)
    print("After reading 2 characters pointer is at: ",fp.tell())
    fp.read(3)
```

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```
print("After reading 5 characters pointer is at: ",fp.tell())
fp.read()
print("after going to the end of the file, pointer is at:", fp.tell())
fp.close()

fp = open("field.txt","r")
print("Before reading pointer is at:", fp.seek(0,2))
fp.read(2)
print("After reading 2 characters pointer is at: ",fp.seek(0,2))
fp.read(3)
print("After reading 5 characters pointer is at: ",fp.seek(0,2))
fp.read()
print("after going to the end of the file, pointer is at:", fp.seek(0,2))
fp.close()
```

```
Before reading pointer is at: 0

After reading 2 characters pointer is at: 2

After reading 5 characters pointer is at: 5

after going to the end of the file, pointer is at: 45

Before reading pointer is at: 45

After reading 2 characters pointer is at: 45

After reading 5 characters pointer is at: 45

after going to the end of the file, pointer is at: 45
```