

**Programming Fundamentals**

Lab-04

**Objective** File Handling, Functions (definition / Call / parameters /return type)

# Task 1:

* Make a file and add some data in it.
* Your program will tell whether the file in open or close.

**Output: The file is opened.**

**Note:Use “is\_open()”.**

# Task 2:

Read the file till its end and copy it to another text file.

**Note: Use “eof()”.**

Data.txt

This is programming fundamentals

Course and we are studying file

handling .

text.txt

This is programming fundamentals

Course and we are studying file

handling .

# Task 3:

Count the total words in file and display on console.

**Data.txt:**

This is programming fundamentals

Course and we are studying file

Handling.

**console:**

count =70

# **Task 4:**

# Write a program that read the files named file1.txt,file2.txt and file3.txt and stores the data in variables/arrays and copy them to a new file name

# “Sumoffiles.txt”.

**file1.txt:**

A programme should be recorded on a proper medium which the computer can process. Usually punched cards are used for this purpose. Each computer can understand one language which is known as **“machine language”.**

**file2.txt:**

Programme is a sequence of instructions written in a proper language through which the computer can understand and solve the problem given to it. It is the method by which the whole computing process is directed and controlled. Preparing a programme for the computer is known as **“programming”.**

**File3.txt:**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

# **Sumoffiles.txt:**

A programme should be recorded on a proper medium which the computer can process. Usually punched cards are used for this purpose. Each computer can understand one language which is known as **“machine language”.** Programme is a sequence of instructions written in a proper language through which the computer can understand and solve the problem given to it. It is the method by which the whole computing process is directed and controlled. Preparing a programme for the computer is known as **“programming”.** 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

* **Functions**

1. User input must be done in main function.

2. Function that returns nothing/ having no return statement will have return type void.

Use the following method as discussed in class to write functions:

#include<iostream> using namespace std;

//definition of function/s: you can define as many functions as you like before main int main()

{

//some code here

//Call of functions goes here in main

//some code here

return 0;

}

# Task 5:

Write a function other than main that reads a name and print that name on screen. Call the function in main.

# Task 6:

. Write a function other than main that will calculate the factorial of any number input by user. Make use of user input in the main function.

# Task 7:

. Write a function other than main that will print the multiplication table of any number entered by user. Call the function in main.

# Task 8:

Write a function other than main, the function reads two number and finds the smaller of two numbers.

# Task 9:

Write two functions other than main, the first function that will calculate the sum of any two numbers input by user. The second function will display the sum of numbers calculated by the first function.

# Task 10:

Write a function that reads a sentence from user and counts all the vowels in the above sentence, and displays the vowel count.