**Programming Fundamentals**

**Lab 06**

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**Topic: Functions & File Handling**

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**Question 1:** Write the following function and implement these functions in a sample program. (Don’t use any built-in Library)

1. int add(int, int)

// this function will get two numbers as parameters and return their result as sum

1. int sub(int, int)

// this function will get two numbers as parameters and return their result as subtraction

1. int mul(int, int)

// this function will get two numbers as parameters and return their result as multiplication

**Question 2:** Write the following function and implement these functions in a sample program. (Don’t use any built-in Library)

1. void table(int)

// this function will get a number and print its table 1 to 10

1. float Diameter(float)

// function will get the radius of circle and return its Diameter

// Diameter = 2r

1. float Circumference(float)

// function will get the radius of circle and return its Circumference

// Circumference = 2πr

1. float Area(float)

// function will get the radius of circle and return its Area

// Area = πr2

**Question 3:** Write a C++ program that takes three integer numbers from user. You have to make a function named **findGreater(int, int, int)** and find the greater number among them.

**Question 4:** Write a C++ program that takes an integer number from user. You have to make a function named **fact(int)** and find the factorial of that number.

**Question 5:** Write a C++ program that takes an integer number between 1 to 7 from user. You have to make a function named **days(int)** and find the name of the week day with respect to the number entered by user.

**Question 6:** Make a function **words()** in C++ to read the content from a text file “file.txt”, count and display the number of words present in it.

**Question 7:** Write a C++ program that takes a positive integer value from user. You have to make a function named **prevnext(int, int&, int&)** (pass values by reference). The function is supposed to find the previous and next value of the given integer entered by user.