

National University of Computer and Emerging Sciences



## Lab # 04

For

## Programming Fundamentals Lab

Lab Instructor(s)	Mr. Mughees Ismail
Semester	Fall 2022

**FAST School of Computing**

## Instructions:

1. Make a word document with the convention “SECTION\_ Assignment#\_ROLLNO” and put all your source code and snapshots of its output in it.
2. Plagiarism is strictly prohibited, if you take a code snippet off the internet, mention its reference.
3. Do not discuss solutions with one another.

### Task 01:

Write a C++ program that prints “Hello World!”.

### Task 02:

Write a C++ program that takes two numbers from the user and prints the sum.

### Task 03:

Write a C++ program to swap the values of two positive numbers using third variable.

### Task 04:

Write a C++ program that takes input from the user and calculates the volume of the cylinder.

### Task 05:

Write a C++ program to convert temperature in Celsius to Fahrenheit by taking user input.

### Task 06:

Write a C++ program to convert temperature in Fahrenheit to Celsius by taking user input.

### Task 07:

Write a C++ program that takes dividend and divisor from the user and prints the quotient and remainder.

### Task 08:

Write a C++ program that takes input from the user and calculates the volume of the sphere.

**Task 09:**

Write a C++ program that takes input from the user and calculates the volume of the cube.

**Task 10:**

Write a C++ program that prints the value stored in the bool variable. If the value stored in bool variable is true, it will print 1 and vice versa.

**Task 11:**

Write a C++ program that prints the grade you wish to pass this course with. Print using the **char** data type.

**Task 12:**

Write a C++ program that takes two numbers input from user and print the sum, product, difference and remainder.

**Task 13:**

Write a C++ program that takes a float input and print it using int data type. Note: output must show data loss.

**Task 14:**

Write a C++ code that prints the area of square.

**Task 15:**

Write a C++ that prints the area of triangle.

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*Best of luck*