National University of Computer and Emerging Sciences

Lab Manual #05
For

Programming Fundamentals Lab

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

Instructions:

FAST School of Computing

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.
4.

Task 01:

Write a C++ program that takes input of a student marks and print it, subjects are (English, Urdu, Mathematics, Physics and Chemistry).

Task 02:

Write a C++ program that takes 5 numbers input from user and prints the average.

Task 03:

Write a C++ program to swap the values of two positive numbers without using third variable.

Task 04:

Write a C++ program in which you initialize char variables with your name letters and print it. For example if name is "Hamza", it'll have 5 char variables containing one letter of name.

Task 05:

Write a C++ program that takes mass and velocity as input and calculates the kinetic energy.

Task 06:

Write a C++ program that takes a 3 digit number and print it's digits separately. Test your code on these three inputs and attach all 3 screenshots:
- 165
- 387
- 188

Task 07:

Write a C++ program that takes 3 characters, 3 integers and 3 floating point numbers from user and print them.

Task 08:

Write a C++ program that takes weight input in grams and converts into kilograms and prints it.

Task 09:

Write a C++ program that takes a number and prints the square of it.

Task 10:

Write a C++ program that prints your name, roll number, section, and age. You're not supposed to use string data type.

Best of luck