**National University of Computer and Emerging Sciences**



Lab Manual # 12 Programming Fundamentals

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| Course Instructor | Ms. Arooj Khalil |
| Lab Instructor(s) | Nimra Abbas  Saleha Batool |
| Section | BCS-IH1 and IH2 |
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Department of Computer Science FAST-NU, Lahore, Pakistan

**Q1.**ImplementafunctionsumOfN that takes as input parameters an integer array data, an index number Ind, an integer N and size of the array and calculates the sum of Nelements in the array starting from index Ind.

Sample:

data: 3 4 1 5 7 11 3 5 4

Ind = 4 N=3

Return:21

How: sum = 7+11+3 = 21

data: 3 4 1 5 7 11 3 5 4

Ind = 7 N=3

Return:9

How: sum = 5+4 +end of array = 9

**Q2.** Write a C++ Program to Enter or Insert Data into File using File Handling. Here’s simple Program to Enter or Insert Data into File using File Handling in C++ Programming Language.

**Q3.** A local zoo wants to keep track of how many pounds of food each of its three monkeys eats. Each day during a typical week. Write a program that stores this information in a Two-Dimensional 3x5 array, where each row represents a different monkey and each column represents a different day of the week. The program should first have the user input the data for each monkey. Then it should create a report that includes the following information:

➢ Average amount of food eaten per day by the whole family of monkeys.

➢ The least amount of food eaten during the week by any one monkey.

➢ The greatest amount of food eaten during the week by any one monkey.

Input Validation: Do not accept negative numbers for pounds of food eaten.

**Q4.** Write a C++ Program to retrieve information from file using File Handling