

# Lab 7

**Objective:** Using the constructs discussed in the class, develop C programs to solve the tasks below. Before starting to code, make sure to write a pseudocode or illustrate a flowchart for each of the problems.

Question 1: Given 2 matrices of order  $n \times m$  and  $m \times q$ , calculate and print their product

Question 2: Write a program to calculate and print the vector and scalar product of two vectors. Your program should have two functions, one for computing the vector product and the other for computing the scalar product.

Question 3: Using only the functions implemented in Question 2, write a program to multiply two matrices. No arithmetic operations must be performed in the main function.