National University of Computer and Emerging Sciences



Lab Manual

for

Programming Fundamentals

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| Course Instructor | Ms. Amina Batool |
| Lab Instructor(s) | Ms. Sonia Anum  Ms. Mamoona Akbar |
| Section | PF C |
| Semester | Fall 2021 |

Department of Computer Science

FAST-NU, Lahore, Pakistan

# Lab Manual 06

## 

## Objectives

In this lab we will mainly perform activity

Nested loop

**Problem 1:**

Write a program that traces the following output using nested for loop.

**Output:**

1 1

1 2

1 3

1 4

2 1

2 2

2 3

2 4

3 1

3 2

3 3

3 4

**Problem 2:**

Write a program that traces the following output. The outer loop should be while loop and inner loop should be for loop.

**Output:**

5

4 5

3 4 5

2 3 4 5

1 2 3 4 5

**Problem 3:**

Write a program that inputs an integer from user. It displays the sum of integers for each integer for 1 to the given integer.

**Output:**

Enter the ending integer: 5

**Integer Sum**

1. 1
2. 3
3. 6
4. 10
5. 15

**Problem 4:**

Write a program that displays the following output. The outer loop should be do while and inner loop should be while loop.

**Output:**

A A A A A

B B B B B

C C C C C

D D D D D

E E E E E

**Problem 5:**

Write a program that traces the following output. The outer loop should be while loop and inner loop should be for loop.

**Output:**

1 2 3 4 5

1 2 3 4

1 2 3

1 2

1