National University of Computer and Emerging Sciences



Lab Manual

for

Programming Fundamentals

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| Section | PF 1H1 & 1H2 |
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**Problem 1:**

Write a program in C++ to find the frequency of each digit in a given integer.

**Problem 2:**

Write a program that displays the following using while loop.

**Output:**

4 4 4 4

3 3 3

2 2

1

**Problem 3:**

Write a code in C++ that generates the following output using do while.

**Output:**

1 1

1 2

1 3

2 1

2 2

2 3

3 1

3 2

3 3

**Problem 4:**

Write a C++ program that displays the pyramid star pattern using for loop.

**Output:**

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**Problem 5:**

Write a C++ program that displays the heart pattern with your name message inside it using for loop.

