National University of Computer and Emerging Sciences



Lab Manual 11

Programming Fundamentals

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| Course Instructor | Mr. Waqas Manzoor |
| Lab Instructor (s) | Ms.Shazia Ahmed  Mr. Adeel Qayyum |
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Department of Computer Science

FAST-NU, Lahore, Pakistan

## 

**Problem1:**

Suppose that you have the following C++ code:

vector<int> myList(5);

unsigned int length;

myList[0] = 3;

for (int i = 1; i < 4; i++)

myList[i] = 2 \* myList[i - 1] - 5;

myList.push\_back(46);

myList.push\_back(57);

myList.push\_back(35);

a. Write a C++ statement that outputs the first and the last elements of myList. (Do not use the array subscripting operator or the index of the elements.)

b. Write a C++ statement that stores the size of myList into length.

c. Write a for loop that outputs the elements of myList.

**Problem 2:**

Write a program to add two vectors of integers type and length 3

**Problem 3:**

Write a program to append value to a given empty vector.

**Problem 4:**

Write a program to multiply two vectors of integers type and length 3.

**Problem 5:**

Write a program to divide two vectors of integers type and length 3

**Problem 6:**

Write a program which will print all the pairs of prime numbers whose

sum equals the number entered by the user.