**Programming Fundamentals – Fall 2014**

**Lab-03**

**Problem Pool**

Draw Flow Charts for the following programs. you have to use proper statements for output and input.

**Note:**

* Pair discussion not allowed
* No use of helping material

LOOPING Program Statements (each have 10 marks)

1. Draw flow chart of a program that inputs 5 numbers and displays the largest number.
2. Draw flow chart of a program that inputs 5 numbers and display the smallest number.
3. Draw flow chart of a program that takes a number and print its factors
4. Draw a flow chart of a program that displays n number of Fibonacci series

(Fibonacci series: 0,1,1,2,3,5,8...)

Bonus: (each has 20 marks)

1. Draw flow chart of a program that takes a number and display its reverse.
2. Draw a flow chart that generates geometric sequence; input a number(r) and prints n terms, also take n as input from user.

Sample Output: (for r = 2, n=7) 1, 2, 4, 8, 16, 32, 64

1. Draw a flow chart that reads two integers and computes and display the GCD of them (Hint: Repeatedly subtract the smaller number from larger number until you end up with zero.)