**Object-Oriented Programming Lab #07**

**Department: Student ID: Name:**

A. Code explanation & output analysis (Write the source code and results)

A-1. Listing 10.9

A-2. Figure 10.2 (Explain the process of recursion when Fibonacci(5) is called)

B. Exercises (Write the questions down on your answer sheet)

(pp. 280-287), Exercises 1-10, 12  
(write output analysis for all exercises)

C. Additional exercises (Write the questions down on your answer sheet)

C-1. Code explanation & output analysis (Write the source code and results) – see <https://en.wikipedia.org/wiki/Tower_of_Hanoi>

#include <iostream>

void Hanoi(int m, char start, char middle, char end){

if(m == 1){

std::cout << "Move disc " << m << " from " << start << " to " << end

<< std::endl;

}

else{

Hanoi(m-1, start, end, middle);

std::cout << "Move disc " << m << " from " << start << " to " << end

<< std::endl;

Hanoi(m-1, middle, start, end);

}

}

int main(){

int discs = 3;

Hanoi(discs, 'A', 'B', 'C');

}