

**ISE 5123: Software Tools-Dec Support**  
**Assignment #2**  
**Due February 25, 9:00 am**

There are 3 problems in this assignment. Please submit a single Python file including the full working code of all problems with the logical order. Data files are available in Assignment #2 including: payroll.txt and myfile1.txt.

**Problem 1**

Write a program to display the Fibonacci sequence up to n-th term. The program should prompt the user for the number of terms.

Note that a Fibonacci sequence is the integer sequence of 0, 1, 1, 2, 3, 5, 8.... The first two terms are 0 and 1. All other terms are obtained by adding the preceding two terms.

**Problem 2**

The payroll department keeps a list of employee information for each pay period in a text file named payroll.txt. The format of each line of the file is as follows:

*< name > < hourlywage > < hoursworked >*

Write a program that inputs the filename: payroll.txt from the user and prints to the terminal a report of the wages paid to the employees for the given period. The report should be in tabular format with the appropriate header. Each line should contain an employee's name, the hours worked, and the wages paid for that period. You can find payroll.txt in Assignment #2 on Canvas.

**Problem 3**

Write a program that prompts the user for the names of two text files including: myfile1.txt and myfile2.txt. The contents of the first file, myfile1.txt, should be input and written to the second file, myfile2.txt. You can find myfile1.txt in Assignment #2 on Canvas.