

# Assignment 2

Practical Task 2 (15%)

## DUE DATE

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Session 9

## OBJECTIVE

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This project will test your ability to use a variety of skills acquired throughout the course. You use many of the procedures learned thus far to implement a solution in a typical business setting. The objectives of this project are to:

- Install Python and Perl if not already present
- Write basic Python programs
- Write functions in Python
- Manipulate strings in Python
- Work with Python data structures
- Write basic Perl programs

## DESCRIPTION

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Your recently acquired Python and Perl skills have given you the confidence and ability to execute various tasks. This is an opportunity to take a leadership role as the brains of the operation.

## INSTRUCTIONS

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Use the instructions below to plan and implement your project. It is recommended that you perform the tasks in the same order as they appear in the instructions below.

**Task 1:**

Write a Python function that accepts a sentence composed of words from a user and displays the following:

- a) Middle word
- b) Longest word in the sentence
- c) All the words in sentence reversed

You can take any string as input from a user and perform the above operation.

### Example:

If a user enters, “This is my first sentence”, the middle word should return **my**. The Longest word should return **“sentence”**. And the reverse of the string should return **“sihT si ym tsrif ecnetnes”**

### Task 2:

Consider the following scenario. You have a list of students who are attending class “Python” and another list of students who are attending class “Web Application”. Find the list of students who are attending both classes. Also find the list of students who are not common in both the classes. Print it. You can take any two lists of string as input from the user and perform the above operation, or you can declare any two lists in the program and perform the operation.

### Task 3:

Complete the programs outline below.

- a. Addition of two numbers using Perl. You can use any two numbers as input from a user and perform the above operation.
- b. Write the Perl script to Remove Empty Directories. You can take any string as input from a user and perform the above operation.

## SUBMISSION INSTRUCTIONS

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Compile your work in a word document for each task. Your submission must include:

- Programs
- Screen shots of your results.

Work must be submitted in the correct file type and be properly labelled as per the College naming convention:

NAME\_COURSE\_ASSIGNMENT. E.g. XuXiaLing\_FM50D\_A01.

## GRADING CRITERIA

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Assignment Value: **15%**

Grading Criteria	Grading
Task 1	/30
Task 2	/30
Task 3	/40
<b>TOTAL</b>	<b>/100</b>