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Lab 8 — File Processing & Modules

COMP 150 : Introduction to Programming

(100 points)

Brief Description

The goal of this lab is to assess your knowledge and skills on the concepts of string manipulations, file processing in Python, reuse codes from Python modules and to give you adequate support during the laboratory session so as to solidify your knowledge of the learnt concepts.

Problem Definitions

60 points You are to complete function $extractSalary(fileName)$, by inserting the required block of code. The function returns a list of salaries enclosed in the given file as floating point numbers.

HINT – Solving the problem requires that you pass a fully-qualified file name (in our case - "*salaries.csv*", since the file is in the same location as *main.py*) of the file given to you (see attached zipped file) as argument and manipulating its content to produce the results in figure 1. You must import mean and population standard deviation from *statistics modules*. **A variation from these requirements will result in a 50% loss of the entire points**.

10 points Include a program design for your program.

5 points Document your program extensively.

25 points Develop a flowchart for function $extractSalary(fileName)$ only.

***CHECK OFF - Ensure you show your working code to either the lab monitor or instructor before the end of lab session**.

```
C:\Users\adesino\Documents\UFV\COMP150\W20\Lectures\Week_11>python files.py
Mean of salaries is: 123099.00 and the population standard deviation is: 61555.71
```

Figure 1: Expected output