



Central University of  
Technology, Free State

### Practical Assignment 2

**DATE:** 4 March 2019

**SESSION:**

**SUBJECT:** Software Development I

**CODE:** SOD115C  
SSD115C

**EXAMINER:**

Mr G Nel

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INSTRUCTIONAL PROGRAMME CODE: DP\_ITC, EX\_ITC, DP\_CMN, EX\_CMN

**SUBMISSION DATE**

**TUESDAY 12 MARCH 2019 BEFORE 14H30**

#### INSTRUCTIONS:

DOWNLOAD THE ASSIGNMENT FILE FROM ETHUTO.  
COMPLETE THE PROGRAM ACCORDING TO THE REQUIREMENTS.  
ZIP AND SUBMIT THE PROGRAM.  
GROUP WORK IS ALLOWED.  
ONLY ONE OF THE GROUP MEMBERS NEED TO SUBMIT THE PROJECT.  
MAKE SURE ALL GROUP MEMBER NAMES AND STUDENT NUMBERS ARE INSERTED AS  
COMMENTS IN THE PROJECT.  
ALSO LIST ANY OTHER CONTRIBUTORS TO THE PROJECT

THIS ASSIGNMENT CONSISTS OF 3 PAGES (COVERPAGE INCLUDED).

## System Requirements

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You are required to implement a C# Console Application to calculate and display salary related information regarding employee(s) of a company. All employees have a yearly salary and receive an increase indicated as a percentage (like 7.5%). After an increase a new yearly salary is determined as follows:

$$\text{newYearlySalary} = \text{oldYearlySalary} + \text{oldYearlySalary} \times \text{increasePercentage}$$

Employees are also interested to view their monthly salaries and monthly salaries are normally determined as follows:

$$\text{oldMonthlySalary} = \text{oldYearlySalary} / 12$$

Your Program need to prompt the user to gather the following information as input:

```
Enter the Employee Name: Piet
Enter his/her Yearly Salary: 400000
Enter an Increase Percentage (like 7.5): 8.2
```

Take note that the increase percentage in the example is entered as a percentage (8.2%) not as 0.082.

As result your program should determine and display the old and new salary information of the employee, as follows:

```
Employee Details:
Employee Name: Piet
Old Yearly Salary: R400 000,00
Old Monthly Salary: R33 333,33
Increase Percentage: 8.2 %
New Yearly Salary: R432 800,00
New Monthly Salary: R36 066,67
```

## Additional Requirements

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Your project must be a Visual C# Console Application.

Your project must be named as: Assignment2.

You must add the following comments on top of the .cs file in your project:

```
// Program: Practical Assignment 2
// Group Members:
// student number, Initials and Surname (first Group Member)
// student number, Initials and Surname (second Group Member)
// student number, Initials and Surname (third Group Member)
// ...
// Other Contributors:
// Name / Description and a description of the task that this person performed
// e.g. Mentor:      fixed five errors
// e.g. Mother:      typed the whole thing and I fixed the errors
// e.g. Student x from another group/year: fixed one error on the output
```

Submit **one** zip file of all files contained in your project on eThuto under the following link:

2019\_SOD115C\_B -> Assessments -> Practical Assignment 2

**Only one of your Group Members need to submit the project!!!**

Assessment Rubric	
Criteria	Weight
Comments	2
Prompt, read, convert, store name, old salary, increase	6
Input Prompt format as in example	1
Calculate and store new Salary	2
Display heading and name	1
Display old yearly salary and old monthly salary	3
Display increase	1
Display new yearly salary and new monthly salary	3
Output format as in example	1
<b>Total</b>	<b>20</b>

**END OF ASSIGNMENT**

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