



**Assignment No. 1**  
**Semester: Fall 2020**  
**CS201 – Introduction to Programming**

**Total Marks: 20**  
**Due Date: 26-  
November-2020**

**Instructions**

Please read the following instructions carefully before submitting assignment:

It should be clear that your assignment will not get any credit if:

- **Assignment is submitted after due date.**
- **Submitted assignment does not open or file is corrupt.**
- **Assignment is copied (From internet/students).**

**Recommended tool to develop Assignment**

- Dev C++

**Objectives:**

To enable students to understand and practice the concepts of:

- Data Types and Variables
- Arithmetic and Logical Operators
- If-else statements

**Assignment Submission Instructions**

You have to submit only **.cpp** file on the assignments interface of CS201 from your LMS account. ***Assignment submitted in any other format will not be accepted and will be scaled with zero marks.***

For any query related to assignment, please contact [cs201@vu.edu.pk](mailto:cs201@vu.edu.pk).

Information about an ABC organization is given below.

1. There are 10 employees in the organization.
2. There are 2 employees of level-A, 3 employees of level-B, 5 employees of level-C.
3. The information about their salaries is given below.
  - a) The salary of level-A employee is Rs.1, 25,000.
  - b) The salary of level-B employee is Rs.80, 000.
  - c) The salary of level-C employee is Rs.45, 000.
4. Rs.600 is deducted from the salaries of all employees against staff welfare fund.
5. If **ANNUAL** salary of an employee is more than Rs.600, 000, **1%** tax is deducted from salary each month.

You are required to write a C++ program which finds

- 1) Total monthly tax deduction for all employees.
- 2) Total amount of welfare fund collected each month from all employees.
- 3) Net monthly salary of an employee. (Level-A, level-B, level-C).  
(Hint:  $\text{Net\_Monthly\_Salary} = \text{Original\_Salary} - \text{Monthly\_Tax} - \text{Monthly\_Welfare\_Fund}$ )
- 4) Total amount which organization pays to its employees each month.
- 5) Also create a menu using (if-else) conditional statements, if a user wants to know about the separate tax collection of Level-A, Level-B, And Level-C employees.

If user enters 1, leve-A employee tax will be shown.

If user enters 2, leve-B employee tax will be shown.

If user enters 1, leve-C employee tax will be shown.

If user inputs wrong number then a message will be shown: "incorrect input".

Sample Screenshot of Output:

```
Total Monthly Tax deduction of all employees : 4000
Total amount of Welfare Fund collected : 6000
Net monthly salary of A Level employee : 124400
Net monthly salary of B Level employee : 79400
Net monthly salary of C Level employee : 44100
Total amount paid by university after a month : 713000
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```
Enter 1 to know the tax collection of Level A employees
Enter 2 to know the tax collection of Level B employees
Enter 3 to know the tax collection of Level C employees
1
tax collection of Level A employees is Rs.2000
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