# Assignment 1

**Instructions:**

* Draw flow chart on page and submit it in hardcopy
* Create .cpp files for each questions
* Create a compressed folder of .cpp and upload it on portal submission
* Expected output does not mean you have to create your program according to it. It is just an example, your programs should work for any input or any values.
* **Submission:** Flow chart in Hardcopy and code on portal.
* **Deadline: Thursday 05 Oct 2020 till 4.00 PM**

**Task 1:**

Draw a flowchart and write a C++ program that takes weight in Kilograms from the user and convert it into gram. Note: 1 Kg= 1000 gm

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| **Expected output:**  **Example 1:**  Enter weight in Kg: 4  Value in gram: 4000  **Example 2:**  Enter weight in Kg: 19  Value in gram: 19000 |

**Task 2:**

A cashier has currency notes of denominations 10, 50 and 100. If the amount to be withdrawn is input through the keyboard in hundreds, find the total number of currency notes of each denomination the cashier will have to give to the withdrawer. Draw a flowchart and write a C++ program above.

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| **Expected output:**  **Example 1:**  Enter amount in hundreds: 700  Currency note in denominations 10 are: 70  Currency note in denominations 50 are: 14  Currency note in denominations 100 are: 7  **Example 2:**  Enter amount in hundreds: 1400  Currency note in denominations 10 are: 140  Currency note in denominations 50 are: 28  Currency note in denominations 100 are: 14 |

**Task 3:**

**Write a program that takes a temperature in centigrade from a user and convert it into fahrenheit.**

**((0°C × 9/5) + 32 )= °F**

**Task 4:**

Draw a flowchart and write a C++ program that calculates monthly salary of an employee. The salary is calculated after deduction of following taxes.

Income Tax: 10%

Global Life Insurance: 2.75%

Pension Plan: 2.3%

Health Insurance: 200.0 rupees

Your program should prompt the user to input the gross amount and your program should show each tax and net salary (after tax deduction). Your output should be in same format (not same values) as shown in examples below.

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| **Expected output:**  **Example 1:**  Enter Gross amount of employee(RS. ): 100000  Income Tax (RS.): 10000  Global Life Insurance(RS.): 2750  Pension Plan (RS.):2300  Health Insurance: 200.0 rupees  Net Salary (after tax deduction) (Rs. ): 84750 |

**Task 5:**

Draw a flowchart and write a C++ program that takes a 5 digit number in variable **X**. Your program should store the reverse of the entered number into variable **Y.** Your program also prints it on screen.

**Note:** you are not supposed to take 5 separate numbers, but you have to take one number of 5 digits in a single variable. Also store its reverse in a single variable.

**Hint:** User % and / operator

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| **Expected output:**  **Example 1:**  Enter 5 Digit number in Variable **X**: 57391  5 Digit number in reverse order in Variable **Y** is:19375 |