

Introduction to Computing (ITC)

Fall 2020: Assignment 1

**INSTRUCTIONS:**

**Deadline Date:** **­­­­­­­­­­­­­­20th April, 2021. till 5 pm (ON PORTAL)**

* **This is an individual Assignment.**
* **Viva/Quiz may be conducted for evaluation in next class**
* **SUBMIT SOLUTION ON CMS Portal (LATE PENALTY 25% PER DAY)**
* **ATTACH THIS TITLE PAGE AFTER FILLING TO YOUR ASSIGNMENT (5 MARKS)**
* **SCANNED PICTURES OF HAND WRITTEN CODE PASTED ON DOCUMENT WILL NOT BE ACCEPTABLE AT ALL.**
* **YOU CAN DRAW FLOW CHARTS ON PAPER OR ON FLOWCHART MAKER AND PASTE ITS PICTURE ON WORD DOCUMENT.**
* **Note:** *You only need to submit .cpp file of questions which are written in Red font color on CMS. ZIP THE .CPP FILE AND WORD FILE AND THEN SUBMIT ON PORTAL.*

**FOR ONLINE SUBMISSION NAMING CONVENTION: (5 MARKS)**

\***FILES WITH WRONG NAME OR EXTENSION WILL BE DELETED** Use the following pattern for naming the file

(A1SectionNameFourDigitRollNumberFirstName.docx) e.g. A1T0346Haris.docx

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ REGISTRATION NO.:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Draw flowchart of the following questions:**

1. Draw a flowchart to add two numbers entered by user.
2. Draw a flowchart which calculate and output Force (F) by taking mass (m) and acceleration (a) as input from user. [Hint: F = m \* a]
3. Draw a flow chart which inputs a student’s individual subjects marks and total marks and output his/her percentage.
4. Design a flow chart to calculate the number of centimeters and number of millimeters from given number of meters, while user will provide meters as input.

**Write C++ Program of following questions.**

1. Write a program that inputs two integer numbers from user and display its square on the screen.

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| **Sample Output:**  **Enter 1st number: 4**  **Enter 2nd number: 6**  **Square of 1st number : 16**  **Square of 2nd number: 36** |

1. The distance between two houses is given in meters from user. Draw a flowchart on paper and then write a C ++ code to get an input in meters from the user and convert the distance in cm and store into another variable. Display your result on the console.

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| **Sample Output:**  **Enter distance in meters: 200 m**  **Distance in centimeters: 50000 cm**  **Distance in millimeters: 500000 mm** |

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