



Loops, and Selections in C#

Instructions: TUT should be completed in WhatsApp Groups with your Tutors

- (1) **Sum of Range** [**PROBLEM CLASS: D₁**]: Write a program that asks the user for two integers and adds up every number between the integers, including the two integers.

Sample Input

First = 3
Second = 5

Sample Output

Sum of range = 12



- (2) **Date Validator** [**PROBLEM CLASS: D₂**]

Write a program that reads a date as a string and checks if this is a valid date. The user should be allowed to enter the date and also the format the date was written in. The program then displays VALID or INVALID.

Sample Input 1

Enter date: 23/06/2020
Enter format: DD/MM/YYYY

Sample Output 1

VALID

Sample Input 2

Enter date: 28/12/2019
Enter format: MM/DD/YYYY

Sample Output 2

INVALID



D-TWO

Note: Test your program rigorously for dates such as 30th February, etc.

(3) **Name Formulator** [PROBLEM CLASS: D₃]

Let a *name* be a string of alphabets that fulfil the following conditions:

- (a). At least 6 digits long,
- (b). Has at least one character that repeats itself more than twice, and
- (c). Must contain a vowel (i.e. a,e,i,o,u)

Write a program that endlessly takes in alphabets (one character at a time) until it detects a name. Your program should clear out the alphabets taken, if the length is more than 15. If a name is detected, your program should display the name and end.

Example of names: issfty, auaplyhsnab, etc.



Submission Deadline: 6PM, 12-August-2020 (LATE SUBMISSIONS WILL NOT BE ACCEPTED).