

# CTA ASSIGNMENTS 2020 -2021

## CLASS 10

### Assignment 4:

Define a class Sum which contain the functions:

- i) input( )                   – accept two integers from user.
- ii) calculate( )           - calculate sum of two integers.
- iii) display( )           - display the sum

Write a main function and call the above methods.

### Assignment 5:

Write a program to add the following series using the members given below:

$$ax - a^2x + a^3x - a^4x \dots \dots \dots \text{upto } n \text{ no. of terms.}$$

Name of the class: Series

Member data:     int sum, a, x, n

Member method:

- void ask( ):     to input a,x and n.
- void cal( ):     to calculate the sum
- void disp( ):    to display the sum

Write a main method and call all the above-mentioned methods using object.

### Assignment 6:

Write a program to store 10 numbers in a single dimensional array then display the number in one column and positive or negative message in another column. (It is treated as 0 as positive number).

Sample Input: -1     2     0     3     4     -3     -5     10     24     6

Sample output:     -1     Negative  
                      2     Positive  
                      0     Positive  
                      3     Positive  
                      4     Positive  
                      -3    Negative  
                      -5    Negative  
                      10    Positive  
                      24    Positive  
                      6     Positive

Instructions to be followed:

1. All assignments must be hand-written. None of the assignment will be typed in computer. Project file paper will be used to do the assignments.
2. Program and variable description table on rule side with black or blue pen only. White pages can be used for writing sample input and output. No other colour will be acceptable.
3. Each assignment will be scanned as a pdf file.
4. Following sequence will be maintained in a scanned pdf file for each assignment:
  - a) Question
  - b) Program
  - c) Sample Input and output
  - d) Variable description Table

4. PDF File Name will be as follows:

<Registration No><space>Assignment<no.>

Example: 2222 Samadrita Basu Assignment4

5. Subject of the mail will be as follows:

<Registration No><space><Name><space><Assignment>4,5,6

Example: 2222 Samadrita Basu Assignment 4,5,6

6. Please send only one mail with three attachments for three assignments.

7. Submission date for Assignment4,5,6 will be on or before 13/09/2020

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