CTA ASSIGNMENTS 2020 -2021

CLASS 9

Assignment 10:

Write a menu driven program which calculates the sum of the following series:

$i)\ S = \frac{1}{x} + \frac{2}{x^2} + \frac{3}{x^3} + \frac{4}{x^4} + \cdots\cdots\cdots\cdots\cdots\cdots + \frac{n}{x^n}$

$ii)\ S = 1 + (1 * 2) + (1 * 2 * 3) + (1 * 2 * 3 * 4) + \cdots\cdots\cdots\cdots + (1 * 2 * 3 \ldots\ldots * n)$

Use switch case to do the above program.

Assignment 11:

Write a program to accept a number and check whether it is prime or not. If prime, then reverse it and check whether it is also prime or not. Display suitable message for each true case.

1. Sample Input:

   Enter a number: 13

   Sample output:

   13 is prime. 31 is also prime

2. Sample Input:

   Enter a number: 23

   Sample output:

   23 is prime. 32 is not prime

Assignment 12:

Write a program to accept a number and prints multiplication table for n times. n must be taken from user.

Sample Input:

n=5 number=3

Sample Output:

3*1=3

3*2=6

3*3=9

3*4=12

3*5=15

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:

<Registartion No><-><Name><->Assignment<no.> <-><(class)>

Example: 2222-Samadrita Basu-Assignment10-(9A)

5. Subject of the mail will be as follows:

<Registration No><space><Name><space><Assignment>10,11,12

Example: 2222 Samadrita Basu Assignment 10,11,12

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

7. Submission date for Assignment 10,11,12 will be on or before 22/01/2021
