



# University of Central Punjab

(Incorporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab)  
FACULTY OF INFORMATION TECHNOLOGY

## Programming Fundamentals

### Assignment 05 (PF-A)

#### Instructions

**Deadline:** Wednesday, July 01, 2020 - 11:59:59 pm

- You can only submit on CMS Potal OR MS Teams. Submission on any other channel will not be considered.
- No late submission in any case will be accepted
- Copying from others will result in Zero (For both parties.)
- Put all \*.cpp files into a folder and compress it
- Rename compressed file with your Registration No.
- Send only \*.cpp files of code

#### Question No. 01

Write a program in C++ which ask user to enter no. of rows in 2D array. Then user is asked to enter no. of columns in each row one by one. Create a 2D jagged array as per input and dynamically allocate memory to this array. Fill this array with random values (between 100 and 999). Write a user defined function (Name: **SaveInFile()** ) which take pointer to this 2D array, no. of rows, no. of columns in each row as parameter and sum up all values this jagged array. Finally, this function, stores all data and sum in a text file (Name: output.txt) as given in sample output.

#### Sample Output:

PROGRAM	Output.txt
Enter no. of rows: 3	<b>Row-1:</b> 105    478    987
	<b>Row-2:</b> 902    645    325    178    987
Enter no. of columns in Row 01: 3	<b>Row-3:</b> 369    741    147    254    368    697    365
Enter no. of columns in Row 02: 5	<b>Sum is:</b> 7548
Enter no. of columns in Row 03: 7	
Array contents and Data is successfully saved in output.txt.	

*The End ☺*