



## ACADEMY OF TECHNOLOGY

### Lab Assignment

Paper name: Data Structure and Algorithm

Code: PCC-CS391

Discipline: CSE

Semester: 3<sup>rd</sup>

Time: 2 Hours

*Date: July 13, 2022*

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1. Write a C/C++ program to Calculate  $(1) + (1 + 2) + (1 + 2 + 3) + (1 + 2 + 3 + 4) + \dots + (1 + 2 + 3 + 4 + \dots + n)$  series
  2. Write a C/C++ program to print the *sum of the digits* of a given number.
  3. Write a C/C++ program to print the *Pascal triangle*.
  4. Write a C/C++ program to print *sum of even* and *odd* numbers in an array.
  5. Write a C/C++ program to print *largest* and *smallest* numbers in an array.
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