**Assignment 4**

**Instructions:**

1. You are strictly not allowed to use anything other than pointers and dynamic memory.
2. One function should perform one functionality only.
3. If plagiarism found, zero marks will be awarded.

## Task 1

Write a program in C++ that reads data from a file. Create dynamic memory according to the data. Now your task is to perform the following task.

1. Row wise Sum
2. Column wise Sum
3. Diagonal wise Sum

**Example**

**data.txt**

|  |
| --- |
| 4  5 1.6 10.2 33.7 99 20.5  3 44 50 96.1  2 8 9  4 74 50 99 19.1 |

**Output:**

**Sum row wise:** 165, 191, 17, 242.1

**Sum col wise:** 127.6, 120.1, 228.8, 118.1, 20.5

**Sum diagonal wise:** Not Possible

**Note: You are restricted to use pointers and your function should be generic as we discussed in class. Avoid memory wastage, memory leakage, dangling pointer. Use regrow or shrink concepts if required.**