Subject : FDS **ASSIGNMENT NO – 02** **Unit : II**

1. Define & explain the term   i) **Sequential Organization.**

   ii) **Ordered List**

2. Explain **polynomial representation using arrays** with suitable example

3. Derive **address calculation formula for one-dimensional array** with one example.

4. Explain **two-dimensional arrays** with row and column major implementation. Explain address calculation in both cases with example.

5. What is **sparse matrix** ? Explain with suitable example.

6. Explain **fast Transpose of sparse matrix** with suitable example, Discuss time complexity of fast transpose.

7. Write pseudo Python code **to perform simple transpose of sparse matrix**. Discuss its time complexity.

8. Write pseudo Python code **to perform polynomial multiplication using array.**

9. Write pseudo Python code **for reversing a string** and state its time complexity.

10. Write pseudo Python code **that count number of times a given int/data occurs in array.**

****************** <mark>Best of Luck</mark> ******************

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