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

1. Write pseudo C/C++ code **for reversing a string** and state its time complexity.

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

3. Give pseudo C/ C++ code **to concatenate two strings**.

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

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

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

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

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

9. Write pseudo c/c++ code **to perform polynomial multiplication using array.**

****************** Best of Luck ******************

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