

GLS UNIVERSITY
Faculty of Computer Applications & Information Technology
Integrated MSc (IT)
Semester-IV
221601406 PRACTICALS ON DATA STRUCTURE
Unit 1 Assignment

1.	Write a CPP program to create a matrix and check whether that matrix is Sparse matrix or not.
2.	Write a CPP program to create a single dimensional array, pass that array to a user defined function and print it.
3.	Write a CPP program to create two dimensional array, pass that array to a user defined function and print it.
4.	Write a CPP program to create a class named Student with data : No, Name and Addresss. Create 3 objects of Student structure. Get the value of structure variable from user and print it.
5.	Write a CPP program that will display an array in reverse order.
6.	Write a CPP program to represent sparse matrix in Triplet Representation.
7.	Write a CPP program to create a matrix and check whether that matrix is diagonol matrix or not.
8.	Write a CPP program to create a Matrix and print Upper Triangular
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10.	Write a CPP program to sum all the diagonal element.