List of matrix programming exercises

1. Write a python program to add two matrices.

2. Write a python program to subtract two matrices.

3. Write a python program to perform Scalar matrix multiplication.

4. Write a python program to multiply two matrices.

5. Write a python program to check whether two matrices are equal or not.

6. Write a python program to find sum of main diagonal elements of a matrix.

7. Write a python program to find sum of minor diagonal elements of a matrix.

8. Write a python program to find sum of each row and column of a matrix.

9. Write a python program to interchange diagonals of a matrix.

10. Write a python program to find upper triangular matrix.

11. Write a python program to find lower triangular matrix.

12. Write a python program to find sum of upper triangular matrix.

13. Write a python program to find sum of lower triangular matrix.

14. Write a python program to find transpose of a matrix.

15. Write a python program to find determinant of a matrix.

16. Write a python program to check Identity matrix.

17. Write a python program to check Sparse matrix.

18. Write a python program to check Symmetric matrix.