List of Data Science Programs

1. Write a script to get the largest number from a list.

2. Write a program to remove duplicates from a list.

3. Write a script to convert a tuple to a dictionary.

4. Write a script to merge two python dictionaries.

5. Write a function that takes two lists and returns true if they have at least one common member.

6. Write a program to determine which one is the earlier date from the two given dates.

7. Write a script to subtract 5 days from current date.

8. Write a program to open a file and copy the contents to another file.

9. Write a program to capitalise each word in a file.
   Hint - Use str.upper() method

10. Write a program to search a word in a file and replace with another word.
    Hint - Use str.replace("old text","new text") method

11. Write a program to count number of lines in a file.

12. Write a program to retrieve lines having two consecutive 1's.

13. Write programs to perform the following matrix operations. (Use matrices of order 3 X 3)

    (a) addition
    (b) subtraction
    (c) multiplication
    (d) scalar multiplication
    (e) transpose

14. Create the following matrices for various 2D geometric transformations.

    (a) translation matrix
    (b) rotation matrix
    (c) scaling matrix

15. Create the following matrices for various 3D geometric transformations.

    (a) translation matrix
    (b) rotation matrix
    (c) scaling matrix