

ML/DL Course  
Session 1  
Introduction to Python

Exercises:

- 1- Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 4000 (both included).
- 2- Write a program which can compute the factorial of a given numbers.
- 3- With a given integer n, write a program to generate a dictionary that contains (i, i\*i) such that i is an integral number between 1 and n (both included). and then print the dictionary.
- 4- Write a function that returns the maximum of two numbers.
- 5- Write a program which takes 2 digits, X,Y as input and generates a 2-dimensional array. The element value in the i-th row and j-th column of the array should be i\*j.
- 6- Write a program that accepts a comma separated sequence of words as input and prints the capitalized words in a comma-separated sequence after sorting them alphabetically.
- 7- Write a program, which will find all such numbers between 1000 and 3000 (both included) such that each digit of the number is an even number.
- 8- Write a program that accepts a sentence and calculate the number of letters and digits.
- 9- Define a class named Circle which can be constructed by a radius. The Circle class has a method which can compute the area.
- 10- Define a class with a static method.
- 11- Define a class named Rectangle which can be constructed by a length and width. The Rectangle class has a method which can compute the area.
- 12- Generate a random float where the value is between 10 and 110.
- 13- Write a program to shuffle and print a list.
- 14- Write a program generate a 3\*5\*8 3D array whose each element is 0.