

01	Write Python code for matrix addition	
02	Write Python code for matrix multiplication	
03	Sort a tuple using first element <code>tuple1 = (('b', 37), ('c', 11), ('d', 29), ('a', 23))</code>	
04	Sort a tuple using second element <code>tuple1 = (('b', 37), ('c', 11), ('d', 29), ('a', 23))</code>	
05	Write a Python program to sort a tuple by its float element. Sample data: <code>[('item1', '12.20'), ('item2', '15.10'), ('item3', '24.5')]</code> Expected Output: <code>[('item3', '24.5'), ('item2', '15.10'), ('item1', '12.20')]</code>	
06	Write a Python program to remove an empty tuple(s) from a list of tuples. Sample data: <code>[(), (), ('',), ('a', 'b'), ('a', 'b', 'c'), ('d')]</code> Expected output: <code>[('',), ('a', 'b'), ('a', 'b', 'c'), 'd']</code>	
07	Write a Python program to calculate the average value of the numbers in a given tuple of tuples. Original Tuple: <code>((10, 10, 10, 12), (30, 45, 56, 45), (81, 80, 39, 32), (1, 2, 3, 4))</code> Average value of the numbers of the said tuple of tuples: <code>[30.5, 34.25, 27.0, 23.25]</code> Original Tuple: <code>((1, 1, -5), (30, -15, 56), (81, -60, -39), (-10, 2, 3))</code> Average value of the numbers of the said tuple of tuples: <code>[25.5, -18.0, 3.75]</code>	
08	A palindrome is a phrase (a string) that reads the same forwards and backwards. The name "hannah" is a palindrome; so is "Ogopogo," the name of a monster who lives in lake Okanogan, and the word "redivider." Write a Python program that determines whether a given string is a palindrome.	
09	A word processing system sometimes needs to shorten a word to make it fit on a line. Write a function that takes a string containing a single word and decides where to hyphenate it. A hyphen can occur before the endings: "ing," "ed," "ate," "tion," or "ment." It could also occur after a prefix: "pre," "post," "para," "pro," "con," or "com." Otherwise, place a hyphen somewhere in the middle of the word. The function should return a tuple containing the first and second half of the word split at the hyphen.	
10	One way to calculate the square root of a number is to use Newton's method. This starts with an initial guess: if the square root of x is being computed, then a fair initial guess g would be x/2. Successive estimates are given by the expression: <code>newg = (g + x/g)/2</code> Successive estimates are nearer and nearer to the actual square root. Write a program to compute the square root of a number that is entered from the keyboard.	