PG Diploma in Data Science and AI

Assignment

Topic: Basic Python

	Solve the following problems.	marks
Q.1	Perform following operations on the given list. List1 = [15,23,27,16,19,65,34]	8
	a) Sort the given list1 by ascending order? b) Sort the given list1 by descending order? c) Compute the minimum from list1? d) Compute the Maximum from list1?	(2) (2) (2) (2)
Q.2	Perform following operations on the given list. List2 = [23221,36363,54433,43321,51658,56595]	8
	a) Compute the Length of list2? b) Extract elements from 2 to 4 indexes in list2? c) Extract the last element from the list2? d) Delete element of 3rd index from list2?	(2) (2) (2) (2)
Q.3	Perform following operations on the given list. List3 = [Mumbai, Chennai, Banglore, Pune, Hyderabad]	4
	a) Replace Chennai by Mumbai in List3? b) Add 'Delhi' in list3 and print(list3)?	(2) (2)
Q.4	Perform following operations on the given list. List4= [1,2,3,1,5,2,6,5] ?	4
	a) How much time element "1" repeats in list4? b) Delete '6' element from list4?	(2) (2)
Q.5	Using while loop print first 15 Natural numbers?	4

Q.6	List1 = [40,50,60,70,80,90] print above list in reverse order using a loop?	4
Q.7	Write a python program to count the total number of digits in a number using a while loop?	4
Q.8	Write a code to display only those numbers from given list that satisfy the following conditions. numbers = [45, 32, 140, 170, 352, 425, 45]?	4
	a) The number must be divisible by five b) If the number is greater than 500, then stop the loop	(2) (2)
Q.9	Write a python code to display numbers from -10 to -1 using for loop?	5
Q.10	Use a loop to display elements from a given list present at odd index positions. List_1 = [11, 22, 33, 44, 55, 66, 77, 88, 99, 110]	5