**ASSIGNMENT - PYTHON LISTS**

Q1 Give the output:

>>>list1= ["Kathak", "Kathakali", "Odissi", "Manipuri", "Kuchipudi"]

>>>list2=[100, 200, 300, 400, 500,600]

>>>list3= list1[:]

>>>list4= list2[2:5]

Q2 Give the elements of the following list which are present at the given index numbers:

languages=['Hindi', 'English', 'Bengali', 'Oriya', 'Telugu', 'Marathi', 'Malayalam']

1. languages [2]
2. languages [-3]
3. languages [2:5]
4. languages [2:5:2]
5. languages [:5]
6. languages [3:]
7. languages [::2]
8. languages [::-2]
9. languages [-5:-2]
10. languages [5:2:-1]
11. languages [-2:-5:-1]
12. languages [-2:-5:-2]

Q3. Consider the following list:

monuments=[ 'Kutub Minar', 10, 'Taj Mahal', 20, 'India Gate', 30, 'Char Minar', 40]

states=['Delhi', 'Kerala', 'Tamil Nadu', 'Bihar']

Write Python statements for the following:

1. To insert “Red Fort” at index number 5
2. To add 50 at the end of the list
3. To add list states at the end of the list monuments
4. To replace 3rd, 4th and 5th element of the monuments list by “India”.
5. To remove the third element from the list monuments.
6. To delete 3rd to 5th elements from the list monuments.
7. To display the index number of the element “Kerala” from the states list.
8. To check whether the element 20 is present in the list or not.

Q4. Consider the lists languages and states and give the output of the following Python statements:

            languages=['Hindi', 'English', 'Bengali', 'Oriya', 'Telugu', 'Marathi', 'Malayalam']

            states=['Delhi', 'Kerala', 'Tamil Nadu', 'Bihar', 'Delhi']

1. languages=languages + ”Tamil”
2. states=states\*2
3. len(languages)
4. max(languages)
5. min(languages)
6. count(‘Delhi’)

Q5. Write Python script to display the element with maximum value from the given list.

Q6. Write Python script to display the element with minimum value from the given list.

Q7. Write Python script to display the sum of elements from the given list of numbers.

Q8. Write Python script to display the average of elements from the given list of numbers.

Q9. Writ a Python script to input a list of numbers and a number. Check whether the given number is present in the list or not.

Q10. Write a Python script to input a list and find all duplicates and display number of times they are present in the list.