Lists,Tuples & Dictionaries

1. Create a sample list of numbers. Read the list and implement a logic which will update list's elements at even places with increment of 1 and elements at odd places with increment of 2.

2. Create a List of items through user input. Number of input can be decided by programmers. Fix a price of each item. Then ask the customer his budget or range for expenditure and return items from list which lies under his/her budget.

3. Create a list of subjects. Assign each subject to 5 students. Then Make a list of toppers in each subject. [You can use any logic or scenario to decide topper].

4. Return names exists in the list. If you insert any name into the list; it should return with other names automatically without any other change in logic.

5. Create a list of number of persons. Ask Age, Sex and Location of the person. If person is adult (age > 18); print a welcome note with his name and ask him to choose a city to live. Make a list of cities chosen by adults and print which person has chosen which city.

6. Create a Tuple of eateries of name done by user. Make an another tuple Surnames through user input and then make third tuple by tagging each name with surname. Note that surname tuple should have more elements than name tuple. But third tuple will return same number of elements as in name tuple.

7. User input names of 5 items. For each item, he/she input 3 different prices. Now he/she ask customer's budget and according to the budget return best offer on items lying under his/her budget.

8. Create a dictionary of words having their meaning. Now return the difference between actual length of dictionary and length of each element of dictionary. Pick the maximum value from several values comes after difference and return word from dictionary at place equals to maximum value.

9. Create a dictionary of anything. Print each element of dictionary equal number of times to its place.

10. Create a list of Tuples of food items. Now make a dictionary of each item with its category. Remember no item should repeat itself if it exists in more than one tuple. Then make list of each category defined by dictionary.