# QUESTIONS ON TUPLES

Create a tuple as given here:
names=('Bobby','Hoshiya','Ekta','Astha','Dave','Lily')

(a) write an expression that produces this new tuple:
      ('Ekta','Astha',Dave')
(b) write an expression that produces this new tuple:
      ('Bobby')
(c) write an expression that produces this new tuple:
      ('Astha',Dave','Lily')

Write an expression that adds the string "how are you?"to the front of all the elements of the tuple ("I am fine,thank you") and creates a new tuple out of it.

Write a program that inputs a tuple and creates a new tuple that contains every third element of the original tuple, starting at index 0. Don't use slice notation. Write code using a for loop.

Write a program to print the alternate elements of a tuple T

Write a program to print every 3 element of a tuple T, raised to power 3.

Write a program that inputs a tuple having words of a string as its elements  e.g. ("The","quick","brown","fox") and then translates each text element to Pig Latin.

[*English is translated to Pig Latin by taking the first letter of every word, moving it to the end of the word and adding 'ay'. "The quick brown fox"*

*becomes "Hetay uickqay rownbay oxfay".*]

Write a program that takes a tuple with words in Pig Latin ( as created by previous question) and translates  it back to original text.

[Hint. This problem is closely related to previous problem]

Write the code as per following specifications. You may use for loops.
(a) Write a loop that prints each inner tuple pets on a separate line.
(b) Write a loop that prints the second element of each inner tuple in tuple pets on a separate line.
(c) Write a loop that examines tuple pets and computes the number of inner tuples in the tuple.
(d) Write a loop that examines tuple pets and computes the sum of the ages of the animals in the tuple. Ages are the third element of the inner tuples.

Write a program that inputs a tuple T and prints a tuple of the lengths of the subtuples.
For example, if passed tuple T is
((1,2,),(2,4,6,),(4,),(5,0,5))
then it should prints (2,3,1,3)

Write a program that inputs a tuple with each elements of it as another tuple .It then prints the elements of the tuple in increasing order of their lengths.

Write a program that inputs a number n ( integer) and creates a tuple containing : n,2n,3n and 4n