Computing Tools Lab2
Deadline : 17th January 2018 12 A.M.

Instructions

1. Create a folder named <rollno_assign4>, and save all the python programs as per the question numbers in this folder.
For example: 1.py, 2.py , 3.py, etc.
2. No need of script file.
3. The <rollno_assign4>.tar.gz of the above folder should be uploaded on Moodle.
4. File and folder names should be followed strictly as mentioned in the questions below (including case sensitivity). Marks will not be awarded if any discrepancies occur.
5. There should not be any extra space or line(s) in the output. Otherwise, marks will not be awarded.
6. Read all the questions carefully before you start to answer them.
7. Post doubts if any in doubts forum on moodle.

Q1. Write a python program to ask the user's name and age. And print them in the given format.
'Hi! You are <user_name> and your age is <age>.'
Example,
python 1.py
Name? Computing
Age? 100
Output :
Hi! You are Computing and your age is 100.

Q2. Write a python code to perform certain operations on a given string. Name='' Llanfairpwllgwyngyllgogerychwyrndrobwllllantysiliogogogoch".

1. Print the length of the string.
2. Concatenate the string with "Ilovepython" again print the length.
3. Take a number as a user input and concatenate number 5 times.
4. Make a seperate list of all even indices from the updated string
5. Print the reverse of the string created in a step 4
6. Replace all the numbers in a string created in step 4 with "a"
7. Replace all letters in a string to uppercase in a updated string.

Example output:
name="Ilovepython"
1. Length : 11
2. Str2: "IlovepythonIlovepython " Length:22

3. Str3: ”IlovepythonIlovepython22222”
4. l1: ['l', 'o', 'e', 'y', 'h', 'n', 'l', 'v', 'p', 't', 'o', '2', '2', '2']
5. 222otpvlnhyeoI
6. aaaotpvlnhyeoI
7. AAAOTPVLNHYEOI

Q3. Write a code to print table of n (N is user input from keyboard) in the following format.
7x1=7
7x2=14
7x3=21

Q4. Take a user input of string of length =10 and should contain at least two repeating elements. Convert the string to different data types: List, Tuple, Set.
a. crate 2 separates list1= string and list2= integer merge two lists in such a way that alternate element must be integer. Convert a list to dictionary such that key will be string and value will be integer.
eg. list1= ['a','b','c','d','e']
list2= [1,2,3,4,5]
merged_list=['a',1,'b','2','c',3,'d',4,'e',5]
dict1= {'a':1,'b':2,'c':3,'d':4,'e':5}

Q5. Write a code to print the list of 10 numbers. Extract the even and odd numbers from the list and print sum of the numbers in seperate strings.

eg. List1= [1,2,3,4,5,6,7,8,9,10]
even=[2,4,6,8,10] odd=[1,3,5,7,9]
even_sum=[30] odd_sum=[25]