Basic Python Assignment

1) Write a program to print the sum of the digits. For example if the input is 123, the result should be 6.

2) Given a name which contains first and last name, print the output in the following order:

   Last Name,First Name

3) Write a program that accepts an integer (n) and computes the value of n+nn+nnn.

   If n is 5, the output should be 5+55+555 = 615

4) Write a program to accept a filename from the user and print the file extension.

5) Given a list of numbers write a program to calculate the sum of odd and even numbers and print the same. Accept from the user the count of numbers and the actual numbers.

6) Given time in seconds, display the equivalent in hours, minutes and seconds.
   For example, 5000 seconds should print output as follows: 5000 seconds is 1 hours, 23 minutes and 20 seconds

7) Given a string print all the lowercase characters, upper case characters and numeric characters and their counts.

8) Write a program to check if the input string is a palindrome?

9) Store student name and student id in a dictionary. Write a script to lookup a student name given the student id.

10) Write a script to print the sum all the values in a dictionary.

11) Write a script to generate and print a dictionary that contains a number (between m and n) in the form (x, x*x) where x ranges between m & n.

12) Write a script to get the maximum and minimum value in a dictionary.

13) Write a function that accepts a sentence and calculates the number of letters and digits.

14) Write a function add which takes variable parameters and it returns the sum of all arguments which are integers.

15) Write a function mathOp() such that it can accept two variables and calculate the addition, multiplication and subtraction of it. The result must be returned a single return call.

16) Create a function showStudent() which has student id, student name and marks as input. It should display all the data. If marks is missing it should display 75.

17) Write a script to read first n lines of a file. Accept filename and n as input from the user. Similar to Unix head command.

18) Write a script to read last n lines of a file. Accept filename and n as input from the user. Similar to Unix tail command.

19) Write a program to count the number of words in an input file. Accept filename as input from the user.

20) Write a script that accepts a comma separated list of words and prints a hypen separated list of words in sorted order

Input: b,c,a,d,a,e,b,f

Output: a-a-b-b-c-d-e-f