1. Write a function to generate Fibinocci series

2. Implement Bubble sort in an optimised way to sort a million of items

3. Time_sample[123] and time_sample -: write a regex for this to get both these from a file.Steps to follow will be read from a file and find the two pattern mentioned in that file

4. Increment 10.10.10.1(ip address increment).output should be [10.10.10.1,10.10.10.2…….10.10.10.255,10.10.11.255,10.10.12.255,10.10.13.255…….10.10.255.255 ,10.11.255.255……].

5. Assert a test case true if the input falls under the range[-5,5]

6. Check if a string is composed of all unique characters.eg func_unique("ajdkw") -- True func_unique("hi how are you") -- False

7. Write a program to find the number of ‘a’ followed by 0 in a string(eg a0kkka0hdhda0 should return the count 3)

8. Write a program to remove duplicate and return the length of the unique list (eg a = [1,1,3,4] will return a = [1,3,4] and the length will be 3)

9. Write a program illustrating overriding method in program

10. Write a program that accepts a sentence and calculate the number of upper case letters and lower case letters.

Suppose the following input is supplied to the program:

Hello world!

Then, the output should be:

UPPER CASE 1

LOWER CASE 9