

Lab Cycle 1 (Due date 4th November)

- 1) Find the area and perimeter of a circle
- 2) Convert degree celcius to fahrenheit
- 3) Swap 2 numbers without using temp variable
- 4) Check if the number is odd or even
- 5) Factorial of a number
- 6) Display future leap years from current year to a final year entered by user
- 7) Enter 2 list of integers, check
 - a) whether list are of same length
 - b) whether list sums to same value
 - c) whether any value occur in both
- 8) List Comprehension
 - a) Generate positive list of numbers from a given list of integers
 - b) Square of N numbers
 - c) Form a list of vowels selected from a given word
 - d) List ordinal value of each element of a word
- 9) Count occurance of each word in a line of text.
- 10) Prompt the user for a list of integers for all values greater than 100, store "over" instead.
- 11) Store a list of first name, count occurance of 'a' within the list
- 12) Get a string from an input string, where all occurance of first character replaced with '\$' except first character (Example Onion => Oni\$N)
- 13) Create a string from a given string, where first and last characters exchanged (Example python => nythop)
- 14) Find biggest of 3 numbers entered
- 15) Accept a file name from user and print extension of that
- 16) Create a list of colors from comma separated color names entered by user. Display first and last colors
- 17) Accept an integer N, and compute $N + NN + NNN$
- 18) Print out all colors from color-list1 not contained in color-list2
- 19) Create a single string separated with space from 2 strings by swapping the character at position 1

20) From a list of integers, Create a list removing even numbers

21) Find GCD of 2 numbers

22) Sort dictionary in ascending and descending orders

23) Merge 2 dictionaries.