MCA – I Introduction to Python Programming

Practical Sheet – II

1.	Write a Python program to calculate the length of a string.
2.	Write a Python program to get a string made of the first 2 and the last 2 chars from a given a string. Ex Input : beautiful Expected Output : beul
3.	Write a Python program to get a string from a given string where all occurrences of its first char have been changed to '$', except the first char itself. Ex Input : abracadabra Expected Output : abr$c$dbr
4.	Write a Python program to get a single string from two given strings, separated by a space and swap the first two characters of each string. Ex Input : st1=hello st2=world Expected Output : st3=wollo herld
5.	Write a Python program to add 'ing' at the end of a given string (length should be at least 3). If the given string already ends with 'ing' then add 'ly' instead. If the string length of the given string is less than 3, leave it unchanged. Ex Input : test Expected Output : testing If Input : testing Expected Output: testingly
6.	Write a Python program to remove the nth index character from a nonempty string.
7.	Write a Python program to remove the characters which have odd index values of a given string.
8.	Write a Python script that takes input from the user in proper cause and displays that input back in upper and lower cases.
9.	Write a Python program to get the second largest number from a list.
10.	Write a program to remove all the duplicate elements from list.
11.	Write a Python program to find the list in a list of lists whose sum of elements is the highest.
12.	Write a Python program to concatenate following dictionaries to create a new one. d1={1:100, 2:200} d2={3:300, 4:400} d3={5:500, 6:600}
13.	Write a Python program to check if a given key already exists in a dictionary.
14.	Write a Python program to remove duplicate values from Dictionary.
15.	Write a Python script to print a dictionary where the keys are numbers between 1 and 15 (both included) and the values are square of keys.
16.	Write a program to determine frequency of number in a list of numbers.
17.	Write a Python program to find all prime numbers between given range using functions.
18.	Write a Python program to print all Armstrong numbers between given

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	range using functions.
19.	Write a Python program to print all perfect numbers between given range using functions. [perfect number is a positive integer that is equal to the sum of its positive divisor, excluding the number itself example 6 3+2+1= 6]
20.	Write a Python program to generate nth Fibonacci term using function.
21.	Write a python program to find twin prime numbers up to a range. [ex 3,5 5,6 11,13 17,19 41,43] all are twin prime their number difference is 1
22.	Write a Python program to sort a list of tuples using Lambda. Original list of tuple:- [('English',88),('Science',90),('Maths',97),('Socialsciences',82)] Resultant tuple:- [('Social sciences', 82), ('English', 88), ('Science', 90), ('Maths', 97)]
23.	Write a Python program to filter a list of integers using Lambda Original list of numbers:- [1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10] Result:- Even number list:- [2 , 4 , 6 , 8 , 10] Odd number List:- [1 , 3 , 5 , 7 , 9]