Python Practical List

	Practical Set – 1 (Python references, operators)
1	Write a Python program to print “Hello World”.
2	Write a Python program to swap two variables using third variable.
3	Write a Python program to swap two variables without third variable.
4	Write a Python program to find square root of positive number.
5	Write a Python program to find area of a rectangle and circle.
6	Write a Python program to find sum of *n* natural numbers without loop.
7	Check various arithmetic operators of Python.
8	Check various bitwise operators of Python.
	Practical Set – 2 (if-else)
1	WAP to check whether entered number is even or odd.
2	WAP to find whether entered number is positive, negative or zero.
3	WAP to find roots of quadratic equations if roots are real.
4	WAP to check whether entered character is vowel or consonant.
5	WAP to find maximum of three numbers (nested if-else).
6	WAP to calculate the salary of an employee based on following conditions (nested if-else): 1. if degree = B.E. and experience < 5 years, salary=30000 2. if degree = B.E. and experience >= 5 years, salary=40000 3. if degree = M.E. and experience < 5 years, salary=50000 4. if degree = M.E. and experience >= 5 years, salary= 60000
7	WAP to check whether entered input is character, digit or special symbol using ladder if-else.
	Practical Set – 3 (Loops)
1	WAP to find sum of first *N* numbers.
2	WAP to find sum of *N* scanned numbers.
3	Write a Python program to find *N*!.
4	Write a Python program to print Fibonacci series upto *n* terms.
5	WAP to find the reverse of given numbers (Example 2564-4652).
6	WAP to check whether entered number is prime or not.
7	WAP to print all even numbers between 1 to n except the numbers divisible by 6.

8	Write a python program to check whether given number is Armstrong or not.
9	Write a python program to check whether given number is Palindrome or not.
10	WAP to print the following: 1) 1 1 2 1 2 3 1 2 3 4 1 2 3 4 5 2) * * * * * * * * * * * * * * *
	Practical Set –4 (List)
1	Write a python program which covers all the methods (functions) of list.
2	Write a Python program to append a list to the second list.
3	Write a python program to check whether the given list is palindrome or not.
4	Write a python program to store strings in list and then print them.
5	Write a python program to print list of prime numbers upto *N* using loop and else clause.
6	Write a Python program to multiply all the items in a list.
7	Write a Python program to get the largest number from a list.
8	Write a Python program to find the second smallest number in a list.
9	Write a Python program to count the number of strings where the string length is 2 or more and the first and last character are same from a given list of strings.
	Practical Set –5 (List)
1	Write a Python program to remove duplicates from a list.
2	Write a Python program to find the list of words that are longer than n from a given string.
3	Write a Python program that takes two lists and returns True if they have at least one common member.
4	Write a Python program to print the numbers of a specified list after removing even numbers from it.
5	Write a Python program to add two matrices.
6	Write a Python program to transpose a given matrix.
7	Flatten a nested list structure. Example: if list1 = [1, [2, 3], [4, 5, [6, 7]]] then try to convert it in 1-dimensional [1, 2, 3, 4, 5, 6, 7]
8	Write a Python program to split a list every Nth element.