

List of Practicals

Sr.no	Practical Name
1.	a) Write a Python Program to Calculate the Area of a Triangle b) Write a Python Program to Swap Two Variables c) Write a Python Program to Convert Celsius to Fahrenheit
2.	a.) Write a Python Program to Check if a Number is Odd or Even b.) Write a Python Program to Check if a Number is Positive, Negative or 0 c.) Write a Python Program to Check Armstrong Number
3.	a.) Write a Python program to check if a given number is Fibonacci number? b.) Write a Python program to print cube sum of first n natural numbers. c.) Write a Python program to print all odd numbers in a range.
4.	a.) Write a Python Program to Print Pascal Triangle Hint: Enter number of rows: 4 <pre> 1 1 1 1 2 1 1 3 3 1 </pre> b.) WAP to Draw the following Pattern for n number: <pre> 1 1 1 1 1 2 2 2 2 3 3 3 4 4 5 </pre>
5.	Write a program with a function that accepts a string from keyboard and create a new string after converting character of each word capitalized. For instance, if the sentence is “stop and smell the roses” the output should be “Stop And Smell The Roses”
6.	a.) Write a program that accepts a list from user. Your program should reverse the content of list and display it. Do not use reverse () method. b) Find and display the largest number of a list without using built-in function max (). Your program should ask the user to input values in list from keyboard.
7.	Find the sum of each row of matrix of size m x n. For example, for the following matrix output will be like this: <pre> 2 11 7 12 5 2 9 15 8 3 10 42 </pre> Sum of row 1 = 32 Sum of row 2 = 31 Sum of row 3 = 63
8.	a) Write a program that reads a string from keyboard and display: * The number of uppercase letters in the string. * The number of lowercase letters in the string. * The number of digits in the string. * The number of whitespace characters in the string. b) Python Program to Find Common Characters in Two Strings. c) Python Program to Count the Number of Vowels in a String.

9.	<p>a) Write a Python program to check if a specified element presents in a tuple of tuples. Original list: (('Red' , 'White' , 'Blue'), ('Green', 'Pink' , 'Purple'), ('Orange', 'Yellow', 'Lime')) Check if White present in said tuple of tuples! True Check if Olive present in said tuple of tuples! False</p> <p>b) Write a Python program to remove an empty tuple(s) from a list of tuples. Sample data: [(), (), (' '), ('a', 'b'), ('a', 'b', 'c'), ('d')] Expected output: [(' '), ('a', 'b'), ('a', 'b', 'c'), ('d')]</p>
10.	a) Write a Program in Python to Find the Differences Between Two Lists Using Sets.
11.	<p>a) Write a Python program Remove duplicate values across Dictionary Values. Input : test_dict = {'Manjeet': [1], 'Akash': [1, 8, 9]} Output : {'Manjeet': [], 'Akash': [8, 9]} Input : test_dict = {'Manjeet': [1, 1, 1], 'Akash': [1, 1, 1]} Output : {'Manjeet': [], 'Akash': []}</p> <p>b) Write a Python program to Count the frequencies in a list using dictionary in Python. Input : [1, 1, 1, 5, 5, 3, 1, 3, 3, 1, 4, 4, 4, 2, 2, 2, 2] Output : 1 : 5 2 : 4 3 : 3 4 : 3 5 : 2 Explanation : Here 1 occurs 5 times, 2 occurs 4 times and so on...</p>
12.	<p>a) Write a Python Program to Capitalize First Letter of Each Word in a File.</p> <p>b.) Write a Python Program to Print the Contents of File in Reverse Order.</p>
13.	WAP to catch an exception and handle it using try and except code blocks.
14.	Write a Python Program to Append, Delete and Display Elements of a List using Classes.
15.	Write a Python Program to Find the Area and Perimeter of the Circle using Class.
16.	Create an interactive application using Python's Tkinter library for graphics programming.