

CE259- P I P Programming Assignment

Due Date: 15^h April, 2022

Assignment

Sr No	Title
1	<p>You are given a string. Your task is to count the frequency of letters of the string and print the letters in descending order of frequency.</p> <p>If the following string is given as input to the program aabbccde</p> <p>Then, the output of the program should be:</p> <p>b 3 a 2 c 2 d 1 e 1</p>
2	<p>Write a procedure to find min, max, mean, standard deviation, variance of number list.</p> <p>Example Input : 10 50 80 70 49 23 11 4 output : 4 80 37.13 27.25 848.70</p>
3	<p>You are given an integer array height of length n. There are n vertical lines drawn such that the two endpoints of the ith line are (i, 0) and (i, height[i]).</p> <p>Find two lines that together with the x-axis form a container, such that the container contains the most water.</p> <p>Return the maximum amount of water a container can store.</p> <p>Notice that you may not slant the container.</p> <p>Input: height = [1, 8, 6, 2, 5, 4, 8, 3, 7] Output: 49</p> <p>Explanation: The above vertical lines are represented by array [1, 8, 6, 2, 5, 4, 8, 3, 7]. In this case, the max area of water (blue section) the container can contain is 49.</p> <p>Example 2: Input: height = [1, 1] Output: 1</p>
4	<p>Given a list of integers, write a program to print the count of all possible unique combinations of numbers whose sum is equal to K.</p> <p>Input The first line of input will contain space-separated integers. The second line of input will contain an integer, denoting K.</p> <p>Output The output should be containing the count of all unique combinations of numbers whose sum is equal to K.</p> <p>Sample Input 1 2 4 6 1 3 6 Sample Output 1 3</p>

5	Explain about the different types of Exceptions in Python with suitable example.
6	Complete django tutorial (part 1 to part 7) from the official document. https://docs.djangoproject.com/en/4.0/
7	Write a django code to send an email with attachment.
8	Program to demonstrate the Overriding of the Base Class method in the Derived Class.
9	Write Pythonic code to create a function named move_rectangle() that takes an object of Rectangle class and two numbers named dx and dy. It should change the location of the Rectangle by adding dx to the x coordinate of corner and adding dy to the y coordinate of corner.