Exercise: Lecture – 11

11.1 Take few numbers from user input in a tuple and find the summation of those numbers without sum function.

11.2 Find the sum of odd number from a tuple.

11.3 Write a Python program that takes two sets of numbers as input and prints the common elements. If there are no common elements, print a message indicating that.

11.4 Write a Python program that takes two sets of numbers as input and prints the common elements. If there are no common elements, print a message indicating that. Use a loop and if-else conditions to check for common elements.

11.5 Write a program that takes a set of allowed usernames and checks if the input username is allowed or not. Use a loop to repeatedly ask for input until the user enters a valid username.

11.6 Write a Python program that takes a set of numbers and removes all even numbers from it using a loop and if-else condition.

11.7 Write a Python program that takes a list of numbers as input and removes any duplicate values. Use a set to perform the operation and then convert it back to a list.

11.8 Write a Python program that takes a tuple as input and checks if the tuple is symmetrical (the same forward and backward).

11.9 Write a Python program that takes two sets as input and prints their union and intersection.

11.10 Write a Python program that finds the second largest number in a list using loops and conditionals.

11.11 Write a Python program that takes two lists as input and prints the common elements between the two lists.

11.12 Write a Python program that takes a string as input from the user and checks whether it is a palindrome. A palindrome is a word, phrase, or number that reads the same forward and backward.

11.13 Write a Python program that takes a number as input from the user and checks whether it is a palindrome.