ASSIGNMENT 4

1] Write a python program to find all the values in a list that are greater than a specified number. (Use list comprehension) mylist = [int(i) for i in input().split(' ')] num = int(input("Enter a number : ")) glist = [i for i in mylist if (int(i)>num)] 2] Write a python program to find the list of words that are longer than n from a given list of words.(use mystr.split()). e.g : mystr = "The quick brown fox jumps over the lazy dog", n=3 Output : ['quick', 'brown', 'jumps', 'over', 'lazy'] num = int(input("Enter a number : ")) mylist = [i for i in input().split(' ')] print([i for i in mylist if (len(i)>num)]) 3] Write a python program to print the numbers of a specified list after removing even numbers from it. mylist = [int(i) for i in input().split(' ')] print([i for i in mylist if i%2==1]) 4] Write a python program to generate all permutations of a list in python. (import itertools) Print (list(itertools.permutations([1,2,3]))) import itertools print("Enter elements of list : ") print(list(itertools.permutations([int(i) for i in input().split(' ')]))) 5] Write a python program to convert a list of characters into a string. (use join). print("Enter a list of characters : ") mylist = [i for i in input().split(' ')] mystr = "".join(mylist) print(mystr)

6] Write a python program to get the largest number from a list. mylist = [int(i) for i in input().split(' ')] unique = list(set(mylist)) unique.sort() print("Largest number in list is : ",unique[len(unique)-1]) 7] Write a python program to remove duplicates from a list. Mylist,newlist = [int(i) for i in input().split(' ')],0 for item in mylist: if (item not in newlist): newlist.append(item) print(newlist) 8] Write a python program to find the second smallest number in the list. mylist = [int(i) for i in input().split(' ')] unique = list(set(mylist)) unique.sort() print("Largest number in list is : ",unique[len(unique)-2]) 9] Write a python program to count the number of elements in a list within a specified range. print("Enter elements of list : ") mylist,count = [int(i) for i in input().split(' ')],0 1,r = input("Enter the bounds for range : ").split(' ') for item in mylist: if (item<=int(r) and item>=int(l)): count = count+1 print("Number of elements in the given range : ",count) 10] Write a python program to convert a list of multiple integers into a single integer. (Use join, but convert to str first). mylist = [i for i in input().split(' ')] mynum = int("".join(mylist)) print(mynum) 11] WAPP to make a flat list out of a list of lists. mylist,newlist = [[1,2,3],[7 ,8 ,9],[11,22,33]],[] for item in mylist: newlist.extend(item)

print(newlist)