**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

l,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)