**Full Stack Web Development using Python**

**Assignment 14 : More on List**

1. Write a Python script to create a list of first N natural numbers.

**Program :**

l1=[int(e) for e in range(1,int(input("Enter a number"))+1)]

print(l1)

1. Write a Python script to create a list of first N odd natural numbers.

**Program :**

l1=[int(e) for e in range(1,int(input("Enter a number"))\*2,2)]

print(l1)

1. Write a Python script to create a list of first N even natural numbers.

**Program :**

l1=[int(e) for e in range(2,int(input("Enter a number"))\*2+1,2)]

print(l1)

1. Write a Python script to find the greatest number in a given list of numbers.

**Program :**

l1=[int(e) for e in input("Enter numbers seperated by comma").split(',')]

print(max(l1))

1. Write a Python script to find the smallest number in a given list of numbers.

**Program :**

l1=[int(e) for e in input("Enter numbers seperated by comma").split(',')]

print(min(l1))

1. Write a Python script to calculate the sum of elements in a given list of numbers.

**Program :**

l1=[int(e) for e in input("Enter numbers seperated by comma").split(',')]

print(sum(l1))

1. Write a Python script to remove all non int values from a list.

**Program :**

l1=[eval(e) for e in input("Enter numbers seperated by comma").split(',')]

b=[]

for e in l1:

if type(e)==int:

b.append(e)

l1=b

print(l1)

1. Write a Python script to print distinct elements along with their frequencies of occurrence in the list.

**Program :**

l1=[int(e) for e in input("Enter numbers seperated by comma").split(',')]

b=[]

for e in l1:

if e in b:

continue

else:

print("Number = ",e,"Frequencies = ",l1.count(e))

b.append(e)

1. Write a Python script to print indices of all occurrences of a given element in a given list.

**Program :**

l1=[int(e) for e in input("Enter numbers seperated by comma").split(',')]

b=[]

for e in l1:

if e in b:

continue

else:

b.append(e)

print("Number = ",e,"Index = ",end=' ')

i=0

while i<len(l1):

if e==l1[i]:

print(i,end=' ')

i+=1

print()

1. Write a python script to sort a list.

**Program :**

l1=[int(e) for e in input("Enter numbers seperated by comma").split(',')]

l1=sorted(l1)

print(l1)