**Exp : 3**

my\_tuple=(10,20,30)

your\_tuple=("pune","mumbai","delhi")

mix\_tuple=('foo',[1,2,3],'True')

nested\_Tuple=(('Wes McKinney', 'Python for Data Analysis','O Reilly Media'), ('Mark Lutz', 'Programming Python', 'O Reilly Media'), ('Charles Severance', 'Python for Everybody', 'Blumenberg'))

#Merge myTuple and youtTuple into ourTuple.

our\_tuple=my\_tuple + your\_tuple

print(our\_tuple)

#Convert myTuple into list myList and reverse

mylist=list(my\_tuple)

print(mylist)

mylist.reverse()

print(mylist)

# Unpack yourTuple values into three variables – District, State and National.

( District, State, National)= your\_tuple

print(District)

print(State)

print(National)

#Display all elements of mixTuple.

i=0

while i<len(mix\_tuple):

    print(mix\_tuple[i])

    i=i+1

#Add 4 into list element of mixTuple.

my\_list=list(mix\_tuple)

my\_list.append(4)

print(my\_list)

#Perform algebraic operations addition and multiplication on myTuple and yourTuple

#add

tupple3=my\_tuple+your\_tuple

print(tupple3)

#multiply

tupple4=my\_tuple\*2

print(tupple4)

tupple4=your\_tuple\*2

print(tupple4)

#Access information from nestedTuple and display the information as: Name of Author =

#‘Wes McKinney’, Name of Book = ‘Python for Data Analysis”, Name of publisher = ‘O’

#Reilly Media

nested\_tuple = (

    ("Author", "Wes McKinney"),

    ("Book", "Python for Data Analysis"),

    ("Publisher", "O'Reilly Media"),

)

author = nested\_tuple[0][1]

book = nested\_tuple[1][1]

publisher = nested\_tuple[2][1]

print(f"Name of Author = '{author}', Name of Book = '{book}', Name of Publisher = '{publisher}'")

**Output :**

(10, 20, 30, 'pune', 'mumbai', 'delhi')

[10, 20, 30]

[30, 20, 10]

pune

mumbai

delhi

foo

[1, 2, 3]

True

['foo', [1, 2, 3], 'True', 4]

(10, 20, 30, 'pune', 'mumbai', 'delhi')

(10, 20, 30, 10, 20, 30)

('pune', 'mumbai', 'delhi', 'pune', 'mumbai', 'delhi')

Name of Author = 'Wes McKinney', Name of Book = 'Python for Data Analysis', Name of Publisher = 'O'Reilly Media'