**EX NO :7(A) CREATING A LIST AND PERFORMING OPERATIONS**

**DATE:4.2.23**

**AIM:** To write code for the given program.

**CODE:**

n=int(input("enter n value:"))

list=[ ]

for i in range(0,n):

e=input("enter the bk:")

list.append(e)

print("list: ",list)

n1=int(input("enter n1 value:"))

list1=[ ]

for i in range(0,n1):

e=input("enterthe bk:")

list1.append(e)

print("list1: ",list1)

print("concatination:",list+list1)

print("indexing:",list1[2])

print("slicing:",list[:1])

print("reversing:",list1[::-1])

print("repetition:",list1\*2)

list1.extend(["python","c"])

print("extention:",list1)

list.insert(0,"python")

print("insertion:",list)

list1.pop(0)

print("popped value:",list1)

list1.clear()

print(list1)

x=len(list)

print("length:",x)

y=list.count("novels")

print("count of the list:",y)

**OUTPUT:**

enter n value:3

enter the bk:history

enter the bk:novels

enter the bk:history

list: ['history', 'novels', 'history']

enter n1 value:3

enter the bk:fantasy

enter the bk:biography

enter the bk:gk bks

list1: ['fantasy', 'biography', 'gk bks']

concatination: ['history', 'novels', 'history', 'fantasy', 'biography', 'gk bks']

indexing: gk bks

slicing: ['history']

reversing: ['gk bks', 'biography', 'fantasy']

repetition: ['fantasy', 'biography', 'gk bks', 'fantasy', 'biography', 'gk bks']

extention: ['fantasy', 'biography', 'gk bks', 'python', 'c']

insertion: ['python', 'history', 'novels', 'history']

popped value: ['biography', 'gk bks', 'python', 'c']

[]

length: 4

count of the list: 1

**EX NO:7(B) CREATING TUPLE AND PERFORMING OPERATIONS**

**DATE:4.2.23**

**AIM:**

**CODE:**

n=int(input("enter n value:"))

list=[ ]

for i in range(0,n):

e=input("enter the component:")

list.append(e)

carparts=tuple(list)

print("the tuple is:",carparts)

n1=int(input("enter n1 value:"))

list1=[ ]

for i in range(0,n1):

e=input("enter the component:")

list1.append(e)

carparts1=tuple(list1)

print("the tuple1 is:",carparts1)

print("concatination:",carparts+carparts1)

print("indexing:",carparts[2])

print("slicing:",carparts1[:1])

print("reversing:",carparts[::-1])

print("repetition:",carparts1\*2)

carparts=tuple()

print("the tuple1 is:",carparts)

x=len(carparts1)

print("length:",x)

y=carparts1.count("brake")

print("count of the list:",y)

**OUTPUT:**

enter n value:5

enter the component:brake

enter the component:rear view mirror

enter the component:brake

enter the component:bumper

enter the component:engine

the tuple is: ('brake', 'rear view mirror', 'brake', 'bumper', 'engine')

enter n1 value:3

enter the component:battery

enter the component:fuel tank

enter the component:clutch

the tuple1 is: ('battery', 'fuel tank', 'clutch')

concatination: ('brake', 'rear view mirror', 'brake', 'bumper', 'engine', 'battery', 'fuel tank', 'clutch')

indexing: brake

slicing: ('battery',)

reversing: ('engine', 'bumper', 'brake', 'rear view mirror', 'brake')

repetition: ('battery', 'fuel tank', 'clutch', 'battery', 'fuel tank', 'clutch')

the tuple1 is: ()

length: 3

count of the list: 0

**EX NO:7(C) REMOVAL OF DUPLICATE ELEMENTS**

**DATE:4.2.23**

**AIM:**

**SOURCE CODE:**

n=int(input("enter the value of n:"))

list=[]

for i in range(0,n):

e=int(input("enter element value:"))

list.append(e)

print("Created list which contains duplicate elements : ",list)

x=set(list)

print("After creating set removes duplicate elements : ",x)

**OUTPUT:**

enter the value of n:6

enter element value:1

enter element value:5

enter element value:8

enter element value:8

enter element value:5

enter element value:2

Created list which contains duplicate elements : [1, 5, 8, 8, 5, 2]

After creating set removes duplicate elements : {8, 1, 2, 5}

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**EX NO:7(D) LAPTOP SPECIFICATIONS USING DICTIONARY**

**DATE:4.2.23**

**AIM:**

**SOURCE CODE:**

laptop\_specifications={ }

laptop\_specifications['brand']='apple'

laptop\_specifications['memory']='64 GB '

laptop\_specifications['display']='16-inch liquid retina XDR'

laptop\_specifications['ssd storage']='8 TB'

laptop\_specifications['USB C power adapter']='140W'

print("The dictionary is:",laptop\_specifications)

**OUTPUT:**

The dictionary is: {'brand': 'apple', 'memory': '64 GB ', 'display': '16-inch liquid retina XDR', 'ssd storage': '8 TB', 'USB C power adapter': '140W'}

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