**EX NO:7-A       CREATE A LIST FOR ITEMS PRESENT IN A LIBRARY AND DO ALL THE OPERATIONS ON IT**

**DATE:04.02.23**

**SOURCE CODE:**

list1=[]

list2=["motivationalbooks"]

list1.append("educationalbooks")

print(list1)

list1.extend(["programmingbooks","dictonary"])

print(list1)

list1.insert(2,"storybooks")

print(list1)

list1.count("comics")

print(list1)

list1.reverse()

print(list1)

list1.pop(2)

print(list1)

print(list1+list2)

print(list2\*3)

list1.remove("storybooks")

print(list1)

**OUTPUT:**

['educationalbooks']

['educationalbooks', 'programmingbooks', 'dictonary']

['educationalbooks', 'programmingbooks', 'storybooks', 'dictonary']

['educationalbooks', 'programmingbooks', 'storybooks', 'dictonary']

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['dictonary', 'storybooks', 'programmingbooks', 'educationalbooks']

['dictonary', 'storybooks', 'educationalbooks']

['dictonary', 'storybooks', 'educationalbooks', 'motivationalbooks']

['motivationalbooks', 'motivationalbooks', 'motivationalbooks']

['dictonary', 'educationalbooks']

**EX NO:7-B CREATE A TUPLE FOR COMPONENTS OF A CAR AND SHOW ALL THE OPERATIONS**

**DATE:04.02.23**

**SOURCE CODE:**

tuple1=("motorengine","tyre","stearing")

tuple2=("wheels","brakes")

print(tuple1)

print(tuple2)

tuple1.count("acceleration")

print(tuple1)

print(tuple1+tuple2)

print(tuple2\*3)

print(tuple1.index("tyre"))

print(tuple2.index("brakes"))

print(len(tuple1))

print(len(tuple2))

print(min(tuple1))

print(max(tuple1))

print(sorted(tuple1))

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**OUTPUT:**

('motorengine', 'tyre', 'stearing')

('wheels', 'brakes')

('motorengine', 'tyre', 'stearing')

('motorengine', 'tyre', 'stearing', 'wheels', 'brakes')

('wheels', 'brakes', 'wheels', 'brakes', 'wheels', 'brakes')

1

1

3

2

motorengine

tyre

['motorengine', 'stearing', 'tyre']

**EX NO:7-C CREATE A SET TO ACCEPT MORE VALUES AND PRINT THE ELEMENTS AFTER**

**DATE:04/02/2023 REMOVING THE DUPLICATE ELEMENTS**

**SOURCE CODE:**

list=[]

for i in range(0,9):

list.append(i)

list.append(7)

list.append(8)

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

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x=set(list)

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

**OUTPUT:**

Created list which contains duplicate elements: [0, 7, 8, 1, 7, 8, 2, 7, 8, 3, 7, 8, 4, 7, 8, 5, 7, 8, 6, 7, 8, 7, 7, 8, 8, 7, 8]

After creating set removes duplicate elements: {0, 1, 2, 3, 4, 5, 6, 7, 8}

**EX NO:7-D WRITE A PROGRAM TO PRINT THE SPECIFICATIONS OF THE LAPTOP USING**

**DATE:04.02.23 DICTIONARY WITH ITS OPERATIONS**

**SOURCE CODE:**

laptop={"Brand":"dell",

"Model":"inspiron",

"Processor":"Intel Core i5-1135G7",

"RAM":8,

"Storage":"1TB",

"Graphics":"NVIDIA GeForce MX350",

"Screen\_size":15.6 }

print("Laptop Specification :")

print("Brand :",laptop["Brand"])

print("Model :",laptop["Model"])

print("Processor :",laptop["Processor"])

print("RAM :",laptop["RAM"])

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print("Storage :",laptop["Storage"])

print("Graphics :",laptop["Graphics"])

print("Screen Size :",laptop["Screen\_size"])

**OUTPUT:**

Laptop Specification :

Brand : dell

Model : inspiron

Processor : Intel Core i5-1135G7

RAM : 8

Storage : 1TB

Graphics : NVIDIA GeForce MX350

Screen Size : 15.6

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