List items in Library

AIM:

To create a list of items, present in a library and do all the operations on it.

SOURCE CODE:

```
lib = ["Fiction", "Academics", "Novel", "Science Fiction", "Horror"]
print("Length of list: ", len(lib))
lib.append("Fictional Novel")
print("After append: ", lib)
lib.insert(0, "Story Books")
print("After insert: ", lib)
more_lib = ["Novel", "Science", "Projects"]
conc= lib + more_lib
print("List concatenation: ",conc)
lib.remove("Horror")
print("After remove: ", lib)
pop= lib.pop()
print("Popped value: ", pop)
print("After pop: ", lib)
print("Index of Novel: ", lib.index("Novel"))
print("Count of Novel: ", lib.count("Novel"))
lib.sort()
print("After sort: ", lib)
lib.reverse()
print("After reverse: ", lib)
print("Minimum value: ", min(lib))
print("Maximum value: ", max(lib))
print("List repetition: ", lib * 3)
```

OUTPUT:

list= ['magazine', 'documents', 'Maps', 'Audio book', 'journals']

append list = ['magazine', 'documents', 'Maps', 'Audio book', 'journals', 'novel']

insert list = ['magazine', 'documents', 'Maps', 'Audio book', 'database', 'journals', 'novel']

extend list = ['magazine', 'documents', 'Maps', 'Audio book', 'database', 'journals', 'novel', 'manuscript', 'Newspaper']

concatenation = ['manuscript', 'Newspaper', 'python', 'micro form', 'Document']

Repetition = ['magazine', 'documents', 'Maps', 'Audio book', 'database', 'journals', 'novel', 'manuscript', 'Newspaper', 'magazine', 'documents', 'Maps', 'Audio book', 'database', 'journals', 'novel', 'manuscript', 'Newspaper']

Tuple items of car components

AIM:

To create a tuple for components of a car and show all the operations.

SOURCE CODE:

```
car_components = ("Hood","Turbo","Doors","Steering","Doors")
print("Length of tuple: ", len(car_components))
print("Index of Doors: ", car_components.index("Doors"))
print("Count of 2: ", car_components.count("Doors"))
print("Minimum value: ", min(car_components))
print("Maximum value: ", max(car_components))
print("Tuple repetition: ", car_components * 3)
more_car_components = ("Spoilers","Rims","Alloy Wheels")
print("Tuple concatenation: ", car_components + more_car_compon
```

OUTPUT:

```
Length of tuple:  5
Index of Doors:  2
Count of 2:  2
Minimum value:  Doors
Maximum value:  Turbo
Tuple repetition:  ('Hood', 'Turbo', 'Doors', 'Steering', 'Doors', 'Hood', 'Turbo', 'Doors',
'Steering',
                'Doors', 'Hood', 'Turbo', 'Doors', 'Steering', 'Doors')
Tuple concatenation:  ('Hood', 'Turbo', 'Doors', 'Steering', 'Doors', 'Spoilers', 'Rims', 'Alloy
Wheels')
```

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Remove duplicate of a set

AIM:

To Create a set to accept more values and print the elements after removing the duplicate content.

SOURCE CODE:

```
list=[]
for i in range(0,5):
    list.append(i)
    list.append(4)
    list.append(5)
print("Created list which contains duplicate elements : ",list)
x=set(list)
print("After creating set removes duplicate elements : ",x)
```

OUTPUT:

```
Created list which contains duplicate elements :  [0, 4, 5, 1, 4, 5, 2, 4, 5, 3, 4, 5, 4, 4, 5]
After creating set removes duplicate elements :  {0, 1, 2, 3, 4, 5}
```

Laptop specification using Dictionary

AIM:

To write a program to print the specification of the laptop using dictionary with its operation.

SOURCE CODE:

```
laptop={ "Brand":"Asus",
        "Model":"Vivobook 15",
        "Processor":"Intel Core i5",
        "RAM":8,
        "Storage":"1TB",
        "Graphics":"NVIDIA GeForce RTX 3080",
        "Screen_size":15.6 }
print("Laptop Specification : ")
print("Brand : ",laptop["Brand"])
print("Model : ",laptop["Model"])
print("Processor : ",laptop["Processor"])
print("RAM : ",laptop["RAM"])
print("Storage : ",laptop["Storage"])
print("Graphics : ",laptop["Graphics"])
print("Screen Size : ",laptop["Screen_size"])
```

OUTPUT:

```
Laptop Specification :
Brand :  Asus
Model :  Vivobook 15
Processor :  Intel Core i5
RAM :  8
Storage :  1TB
Graphics :  NVIDIA GeForce RTX 3080
Screen Size :  15.6
```