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# Empty List
empty list = []
print ("Empty List ->", empty list)
print
("-----
num_list = [1, 2, 3, 4, 5, [6, 7, 8]]
string_list = ["in", "im", "writing", "python", "script"]
mix list = [1, "I", 2, "am", 3, "writing", 4, "python", 5, "script"]
print ("Number List ->", num list)
print ("String List ->", string list)
print ("Mix List ->", mix list)
print
· ("-----")
# Modify the Lists
# Append Method - adds the element at the end of the list
num list.append(6)
print ("After Append 1 ->", num list)
num list.append(7)
print ("After Append 2 ->", num list)
num list.append(8)
print ("After Append 3 ->", num list)
print
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("-----")
# Insert Method - adds the element at the given position
num list.insert(0, 9)
print ("After Insert 1 ->", num list)
num list.insert(5, 10)
print ("After Insert 2 ->", num list)
num list.insert(8, 11)
print ("After Insert 3 ->", num list)
print
· ("-----")
# Extend Method - Adds the list of elements at the end of the list
another list = [15, 14, 13, 12, 16]
num list.extend(another list)
print ("After Extend ->", num list)
some other list = [19, 18, 17]
num list += some other list
print ("After Concat ->", num list)
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num list.append(another list)
print ("After Append ->", num list)
print
("-----")
# POP Method - Removes the elements at the end
removed element = num list.pop()
print ("Removed Element ->", removed_element)
print ("After POP ->", num list)
print
("-----")
# Remove Method
num list.remove(9)
print ("After Remove ->", num_list)
print
("-----")
# Del Function
del (num_list[6:10]) # Removes num_list[6], num_list[7], num_list[8],
num list[9]
print ("After DEL ->", num list)
print
("-----")
# General Functions
# num list.append([6, 7, 8])
print ("Length of the List ->", len(num list))
print ("Maximum ->", max(num_list))
print ("Minimum ->", min(num_list))
print ("Maximum ->", max(string list))
print ("Minimum ->", min(string list))
print ("Sum ->", sum(num list)) # works only on the lists that contains
only numbers
print ("Index of value 19 ->", num list.index(19))
print ("Count of 19 ->", num_list.count(190))
print
("-----")
# Sorted Function
new list = sorted(num list, reverse=True)
print ("After Sorted Num List ->", num list)
print ("New List Sorted ->", new list)
("-----")
# Sort Method
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num list.sort(reverse=True)
print ("Num List Sorted ->", num list)
print
("-----")
# Repetition
num list = [1, 2, 3, 4, 5]
print ("Repetition Operator ->", num list * 2)
# Using Iterator
for number in num list:
 print ("For Loop ->", number)
count = 0
while (count < len(num list)):</pre>
 print ("While Loop ->", num list[count])
 count += 1
print
("-----")
# Membership Operator
string = "I am writing python script"
if ("ting" in string):
 print ("Present")
else:
 print ("Not Present")
if ("ting1" not in string):
 print ("Not Present")
else:
 print ("Present")
("-----")
emp loc = ["chennai", "bangalore", "pune", "mumbai", "noida"]
if ("chennai" in emp loc):
 print ("Chennai is present in the list")
else:
 print ("Chennai is not present in the list")
print
("-----")
# List Comprehension
sqr list = []
for num in range (1, 11):
 if (num % 2 == 0):
   sqr list.append(num ** 2)
print ("Square List without comprehension ->", sqr list)
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