**LIST TASKS**

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1. Write a Python program to remove duplicates from a list

ans}

# Python code to remove duplicate elements

def Remove(duplicate):

final\_list = []

for num in duplicate:

if num not in final\_list:

final\_list.append(num)

return final\_list

# Driver Code

duplicate = [2, 4, 10, 20, 5, 2, 20, 4]

print(Remove(duplicate))

output:

[2, 4, 10, 20, 5]

1. Write a Python program to clone or copy a list.

ans}

# Python program to copy or clone a list

# Using the Slice Operator

def Cloning(li1):

li\_copy = li1[:]

return li\_copy

# Driver Code

li1 = [4, 8, 2, 10, 15, 18]

li2 = Cloning(li1)

print("Original List:", li1)

print("After Cloning:", li2)

output:

Original List: [4, 8, 2, 10, 15, 18]  
After Cloning: [4, 8, 2, 10, 15, 18]

1. Write a Python program to find the index of an item in a specified list.

ans}

# Python3 program for demonstration

# of list index() method

list1 = [1, 2, 3, 4, 1, 1, 1, 4, 5]

# Will print the index of '4' in list1

print(list1.index(4))

list2 = ['cat', 'bat', 'mat', 'cat', 'pet']

# Will print the index of 'cat' in list2

print(list2.index('cat'))

output:

3

0

1. Write a Python program to append a list to the second list.

ans}

my\_list = ['live', 'for']

my\_list.append('happy')

print my\_list

output:

['live', 'for', 'happy']

1. Write a Python program to insert an element at a specified position into a given list.

ans}

def insert\_spec\_position(x, n\_list, pos):

return n\_list[:pos-1]+[x]+n\_list[pos-1:]

n\_list = [1,1,2,3,4,4,5,1]

print("Original list:")

print(n\_list)

kth\_position = 3

x = 12

result = insert\_spec\_position(x, n\_list, kth\_position)

print("\nAfter inserting an element at kth position in the said list:")

print(result)

output:

Original list:

[1, 1, 2, 3, 4, 4, 5, 1]

After inserting an element at kth position in the said list:

[1, 1, 12, 2, 3, 4, 4, 5, 1]

1. Consider a list which has a different data types (int, char, float, string) and do the following operations.

i) Append

# Python program to demonstrate

# Creation of List

# Creating a List

List = []

print("Intial blank List: ")

print(List)

# Creating a List with

# the use of a String

List = ['GeeksForGeeks']

print("\nList with the use of String: ")

print(List)

# Creating a List with

# the use of multiple values

List = ["Geeks", "For", "Geeks"]

print("\nList containing multiple values: ")

print(List[0])

print(List[2])

# Creating a Multi-Dimensional List

# (By Nesting a list inside a List)

List = [['Geeks', 'For'], ['Geeks']]

print("\nMulti-Dimensional List: ")

print(List)

ii) Remove the first element

myList = ["Bran",11,22,33,"Stark",22,33,11]

myList.pop(1)

output:

[‘Bran’, 22, 33, ‘Stark’, 22, 33, 11]

iii) Remove the last element

myList = ["Bran",11,22,33,"Stark",22,33,11]

del myList[2]

myList

output:

[‘Bran’, 11, 33, ‘Stark’, 22, 33, 11]

1. Create a list of 7 values which contains only string data type and change the 5th and 6th positions of the list to any integer value

ans}