1. Select all the correct options to join two lists.

listOne = ['a', 'b', 'c', 'd']

listTwo = ['e', 'f', 'g']

1. newList = listOne + listTwo
2. newList = extend(listOne, listTwo)
3. newList = listOne.extend(listTwo)
4. newList.extend(listOne, listTwo)

Ans. A

1. Create an list of elements and execute the following functions: reverse, append, extend, count,sort.

**CODE:**

# Create a list of elements

my\_list = [1, 3, 5, 7, 9]

# Reverse the list

my\_list.reverse()

print("Reversed list:", my\_list)

# Append an element to the list

my\_list.append(11)

print("After appending:", my\_list)

# Extend the list with another list

my\_list.extend([13, 15, 17])

print("After extending:", my\_list)

# Count occurrences of an element in the list

count\_of\_3 = my\_list.count(3)

print("Count of '3':", count\_of\_3)

# Sort the list

my\_list.sort()

print("Sorted list:", my\_list)

1. Write a Python program to print a specified list after removing the 0th, 4th and 5th elements.

Sample List : ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']  
Expected Output : ['Green', 'White', 'Black']

**CODE:**

sample\_list = ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']

modified\_list = sample\_list[1:4]

print("Expected Output:", modified\_list)

1. What is the output of the following list operation

aList = [10, 20, 30, 40, 50, 60, 70, 80]

print(aList[2:5])

print(aList[:4])

print(aList[3:])

**o/p:**

[30, 40, 50]

[10, 20, 30, 40]

[40, 50, 60, 70, 80]

1. Select all the correct options to copy a list

aList = ['a', 'b', 'c', 'd']

1. newList = copy(aList)
2. newList = aList.copy()
3. newList.copy(aList)
4. newList = list(aList)

Ans. B & D

1. Create an list of elements and slice & dice it.

# Create a list of elements

my\_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

# Slice operations

sliced\_portion = my\_list[2:7]

first\_half = my\_list[:5]

second\_half = my\_list[5:]

every\_other = my\_list[::2]

# Dice operations (using list comprehension)

even\_numbers = [num for num in my\_list if num % 2 == 0]

odd\_numbers = [num for num in my\_list if num % 2 != 0]

# Print the results

print("Original list:", my\_list)

print("Sliced portion:", sliced\_portion)

print("First half:", first\_half)

print("Second half:", second\_half)

print("Every other element:", every\_other)

print("Even numbers:", even\_numbers)

print("Odd numbers:", odd\_numbers)

1. Given a Python list you should be able to display Python list in the following order

aLsit = [100, 200, 300, 400, 500]

**Expected output:**

[500, 400, 300, 200, 100]

**CODE:**

aList = [100, 200, 300, 400, 500]

aList.reverse()

print(aList)

1. What will be the output of the following code snippet?

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

print(a[3:0:-1])

**o/p:** [4, 3, 2]

1. Add item 7000 after 6000 in the following Python List

list1 = [10, 20, [300, 400, [5000, 6000], 500], 30, 40]

**Expected output:**

[10, 20, [300, 400, [5000, 6000, 7000], 500], 30, 40]

**CODE:**

list1[2][2].append(7000)

print(list1)