

Python Lists – Worksheet Package (Without Loops)

SECTION 1: PRACTICE WORKSHEET

1. Create a list of 5 fruits and print it.
2. Access and print the first and last element of the list.
3. Change the second element of the list to 'orange'.
4. Add two new numbers to a list using `append()`.
5. Insert 100 at index position 1.
6. Remove a specific element using `remove()`.
7. Remove last element using `pop()`.
8. Count how many times 10 appears in a list.
9. Find the index of 'python' in a list.
10. Sort a list in ascending and descending order.
11. Reverse a list using `reverse()`.
12. Combine two lists using `extend()`.
13. Copy one list into another list.
14. Clear all elements from a list.
15. Print first three elements using slicing.

SECTION 2: ANSWERS

1. `fruits = ['apple','banana','mango','grapes','kiwi']`
2. `print(fruits[0]); print(fruits[-1])`
3. `fruits[1] = 'orange'`
4. `nums = [1,2]; nums.append(3); nums.append(4)`
5. `nums.insert(1,100)`
6. `nums.remove(3)`
7. `nums.pop()`
8. `numbers.count(10)`
9. `languages.index('python')`
10. `nums.sort(); nums.sort(reverse=True)`
11. `nums.reverse()`
12. `a.extend(b)`
13. `b = a.copy()`
14. `a.clear()`
15. `print(nums[:3])`

SECTION 3: 30 MARK CLASS TEST

Part A (10 Marks) – Short Answers (2 marks each) 1. Define a list in Python. 2. Write syntax for append(). 3. Difference between remove() and pop(). 4. What does sort(reverse=True) do? 5. What is slicing?

Part B (10 Marks) – Programs (5 marks each) 6. Create a list of 5 numbers. Add two elements and sort it. 7. Create two lists and merge them. Remove one element.

Part C (10 Marks) – Practical 8. Create a student list. Add, remove, reverse, and count elements.

SECTION 4: MINI PROJECT (Without Loops)

Project Title: Student Record Manager

Requirements:

1. Create a list of student names.
2. Add 3 new students.
3. Remove one student.
4. Sort the list alphabetically.
5. Reverse the list.
6. Display total number of students using len().
7. Copy the list and clear the original list.