Python List Practice Questions

Below are 20 Python list practice questions for students. These questions cover list creation, access, methods, and operations.

1. Create a list of 5 integers and print them.

num = [10, 20, 30, 40, 50]

print(num)

2. Create a list of strings and print each element using a for loop.

fruits = ["apple", "banana", "kiwi", "mango"]

for fruit in fruits:

    print(fruit)

3. Find the length of a given list using len().

items = [1, 2, 3, 4, 5, 6]

print(len(items))

4. Access the 2nd and 4th elements from a list.

list = [10, 20, 30, 40, 50]

print("2nd:", list[1])

print("4th:", list[3])

5. Create a list of numbers and print a sublist from index 1 to 3.

num = [10, 20, 30, 40, 50]

print(num[1:4])

6. Add a new element at the end of a list using append().

colors = ["red", "green",”black”,”pink”]

colors.append("blue")

print(colors)

7. Insert an element at the 2nd position using insert().

names = ["Abhi", "Bhumi", "Esha"]

names.insert(1, "Vibha")

print(names)

8. Add multiple elements to a list using extend().

a = [1, 2, 3]

a.extend([4, 5, 6])

print(a)

9. Remove a specific element from a list using remove().

cities = ["Delhi", "Mumbai", "Pune",”Bangalore”]

cities.remove("Mumbai")

print(cities)

10. Remove the last element of a list using pop().

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

num.pop()

print(num)

11. Sort a list of numbers in ascending order using sort().

num = [30, 10, 50, 20,40]

num.sort()

print(num)

12. Reverse a list using reverse().

persons = ['abhi', 'bhumi', 'bhargav']

persons.reverse()

print(persons)

13. Count how many times a specific element appears in a list using count().

marks = [10,20,30,40,10,20,10]

print(marks.count(10))

14. Find the index of an element using index().

names = ["nithya", "nidhi", "harini"]

print(names.index("harini"))

15. Copy a list into another list using copy().

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

copy\_list = original.copy()

print(copy\_list)

16. Clear all elements from a list using clear().

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

nums.clear()

print(nums)

17. Use list comprehension to create a list of squares from 1 to 10.

squares = [x\*\*2 for x in range(1, 11)]

print(squares)

18. Create a nested list (list inside a list) and access an element from the inner list.

num = [[1, 2], [3, 4]]

print(num[1][0])

19. Check if a particular element exists in a list using the 'in' operator.

colors = ["red", "green",”black”,”pink”]

print("pink" in colors)

20. Write a program to take 5 numbers from the user, store them in a list, and print the sum of all numbers.

num = [ ]

for i in range(5):

    n = int(input("Enter number: "))

    num.append(n)

print("Sum:", sum(num))

o/p:Enter number: 5

Enter number: 3

Enter number: 8

Enter number: 9

Enter number: 10

Sum: 35