**Day-2 morning assessment**

**Python List Practice Questions**

1. numbers = [10,20,30,40,50]

print(numbers)

o/p:[10,20,30,40,50]

1. fruits = ["apple", "mango", "banana"]

for fruit in fruits:

print(fruit)

o/p: apple

mango

banana

3. colors = ["black", "blue", "purple"]

length = len(colors)

print("Length of the list:", length)

o/p: Length of the list: 3

4. colors = ["black", "blue", "purple", "pink"]

second\_element = colors[1]

fourth\_element = colors[3]

print("2nd element:", second\_element)

print("4th element:", fourth\_element)

o/p:

2nd element: blue

4th element: pink

5. numbers = [2,4,6,8,10]

sublist = numbers[1:4]

print("sublist from index 1 to 3:", sublist)

o/p: sublist from index 1 to 3: [4, 6, 8]

6. colors = ["black", "blue", "purple"]

colors.append("pink")

print("updated list:", colors)

o/p: updated list: ['black', 'blue', 'purple', 'pink']

7. colors = ["black", "blue", "purple"]

colors.insert(1, "pink")

print("updated list:", colors)

o/p: updated list: ['black', 'pink', 'blue', 'purple']

8. colors = ["black", "blue", "purple"]

new\_colors = ["red", "white"]

colors.extend(new\_colors)

print("updated list:", colors)

o/p: updated list: ['black', 'blue', 'purple', 'red', 'white']

9. colors = ["black", "blue", "purple"]

colors.remove("blue")

print("updated list:", colors)

o/p: updated list: ['black', 'purple']

10. colors = ["black", "blue", "purple"]

colors.pop()

print("updated list:", colors)

o/p: updated list: ['black', 'blue']

11. numbers = [5,13,10,9,7]

numbers.sort()

print("sorted list:", numbers)

o/p: sorted list: [5, 7, 9, 10, 13]

12. numbers = [5,13,10,9,7]

numbers.reverse()

print("new list:", numbers)

o/p: new list: [7, 9, 10, 13, 5]

13. numbers = [1,2,3,2,4,2]

count\_of\_two = numbers.count(2)

print("number of times 2 appears:", count\_of\_two)

o/p: number of times 2 appears: 3

14. colors = ["black", "blue", "purple"]

index\_of\_element = colors.index("blue")

print("index of 'blue' :", index\_of\_element)

o/p: index of 'blue' : 1

15. colors = ["black", "blue", "purple"]

colors\_copy = colors.copy

print("copied list:", colors)

o/p: copied list: ['black', 'blue', 'purple']

16. colors = ["black", "blue", "purple"]

colors.clear()

print("new list:", colors)

o/p: new list: []

18. nested\_list = [[1,2,3], ["a", "b", "c"], [True, False]]

element = nested\_list[1][1]

print("accessed element:", element)

o/p: accessed element: b

19. colors = ["black", "blue", "purple"]

if "purple"in colors:

print("Element found!")

else:

print("Element not found.")

o/p: Element found!