Q1:

numbers = [1, 2, 3, 4, 5, 6, 7]

sq\_list = []

for i in range(0, len(numbers)):

    sq = numbers[i] \* numbers[i]

    sq\_list.append(sq)

print(sq\_list)

Q2:

list1 = [10, 20, 30, 40]

list2 = [100, 200, 300, 400]

list2.reverse()

for i in range(0, 4):

    print(list1[i], list2[i])

Q3:

list1 = [70, 20, 15, 70, 25, 50, 20]

for i in range(0, len(list1)):

    if list1.count(70) > 0:

        list1.remove(70)

print(list1)

Q4:

list1 = [2, 3, 4, 5, 6, 7, 8, 9]

sum = 0

prod = 1

for i in range(0, len(list1)):

    if list11[i] % 2 == 0:

        sum = sum + list1[i]

    elif list1[i] % 2 != 0:

        prod = prod \* list1[i]

print(f"Total={sum}")

print(f"Product={prod}")

Q5:

list1 = [1, 23, 19, 11, 29, 22, 47]

count = 0

for i in range(0, len(list1)):

    for j in range(1, list1[i]):

        if list1[i] % j == 0:

            print(list1[i], end=" ")

            count = count + 1

print()

if count == 2:

    print(list1[i])

Q6:

list1 = [1, 24, "CWS", 45, 678, "INDIA", 987, "XYS"]

str\_count = 0

int\_count = 0

for i in range(0, len(list1)):

    if type(list1[i]) == str:

        str\_count = str\_count + 1

    elif type(list1[i]) == int:

        int\_count = int\_count + 1

print(f"Str count={str\_count}")

print(f"Int count={int\_count}")