Interview Questions  
python

1. Create a Python program to find the largest element in a list.

Solution-

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

a\_sorted= sorted(a,reverse=True)

print(a\_sorted[0])

2. Write a program to remove duplicates from a list.

Solution- def remove\_duplicates(lst):

# Convert the list to a set to remove duplicates, then convert it back to a list

return list(set(lst))

# Example usage:

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

unique\_list = remove\_duplicates(original\_list)

print("Original List:", original\_list)

print("List after removing duplicates:", unique\_list)

3. Implement a function to check if a given string is a palindrome or not.

Solution- def is\_palindrome(s):

# Remove spaces and convert the string to lowercase for case-insensitive comparison

s = s.replace(" ", "").lower()

# Check if the string is equal to its reverse

return s == s[::-1]

# Example usage:

input\_string = input("Enter a string: ")

if is\_palindrome(input\_string):

print("The string is a palindrome.")

else:

print("The string is not a palindrome.")

4. Create a program to find the intersection of two lists.

Solution- def find\_intersection(list1, list2):

# Initialize an empty list to store the intersection

intersection = []

# Iterate through the elements of list1

for item in list1:

# Check if the current element is also present in list2 and not already in the intersection list

if item in list2 and item not in intersection:

intersection.append(item)

return intersection

# Example usage:

list1 = [1, 2, 3, 4, 5]

list2 = [4, 5, 6, 7, 8]

intersection = find\_intersection(list1, list2)

print("Intersection of the two lists:", intersection)

5. Write a Python program to check if a number is even or odd.

Solution- def odd\_even(b):

if b%2 ==0:

print(str(b) +"Even")

else:

print(str(b) +"Odd")

a=int(input("Enter A Number "))

odd\_even(a)