**ASSIGNMENT 2 – Lists in Python**

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A5. Write a Python Program to find the union of two lists.

Sample Input:

lst1=[10,20,30,40,30,50,60]

lst2=[10,15,20,30,25,25]

**Output:**

lst3=[10,20,30,40,50,60,15,25]  # or in any other order

# Write a Python Program to find the union of two lists.

lst1 = [10,20,30,40,30,50,60]

lst2 = [10,15,20,30,25,25]

lstU = list(set(lst1) | set(lst2))

print(lstU)

A6. Write a program to create, append, and remove lists in python

# Write a program to create, append, and remove lists in python

# create

list = []

# append

def append(v):

    return list.append(v)

# remove

def remove(v):

    return list.remove(v)

while(True):

    choise = int(input("Press 1 for Append, Press 2 for remove, Press 0 to exit\n"))

    if choise == 1:

        v = int(input("Enter value to be added: "))

        append(v)

        print(list)

    elif choise == 2:

        v = int(input("Enter the element to be removed: "))

        remove(v)

        print(list)

    elif choise == 0:

        exit()

    else:

        print("Try with valid input next time!")

A7. Python program to square each element of a list.

Given x = [2, 3, 4, 5, 6]

**Expected output**Result : 4 9 16 25 36

# Python program to square each element of a list.

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

sqr = []

for i in lst:

    sqr.append(i\*i)

print(sqr)

A8. Python program to remove an empty element from a list.

num = [“Hello”, 34, 45, ””, 40]

Expected output

Result : [‘Hello’, 34, 45, 40]

# Python program to remove an empty element from a list.

num = ["Hello", 34, 45, "", 40, ""]

for i in num:

    if i == "":

        num.remove("")

print(num)

A9. Write a program to get the maximum number from a list.

**Hint**  
Given num = [2,3,2,4,7,8]

**Expected output**  
Max number in list items is 8

# Write a program to get the maximum number from a list.

num = [2,3,2,4,7,8]

num.sort()

print("Max number in list items is", num[-1])

A10. Write a program in Python to remove duplicate items from a list.

**Hint**  
Given num = [2,3,4,5,2,6,3,2]

**Expected output**  
Result: [2, 3, 4, 5, 6]

# Write a program in Python to remove duplicate items from a list.

num = [2,3,4,5,2,6,3,2]

new\_num = []

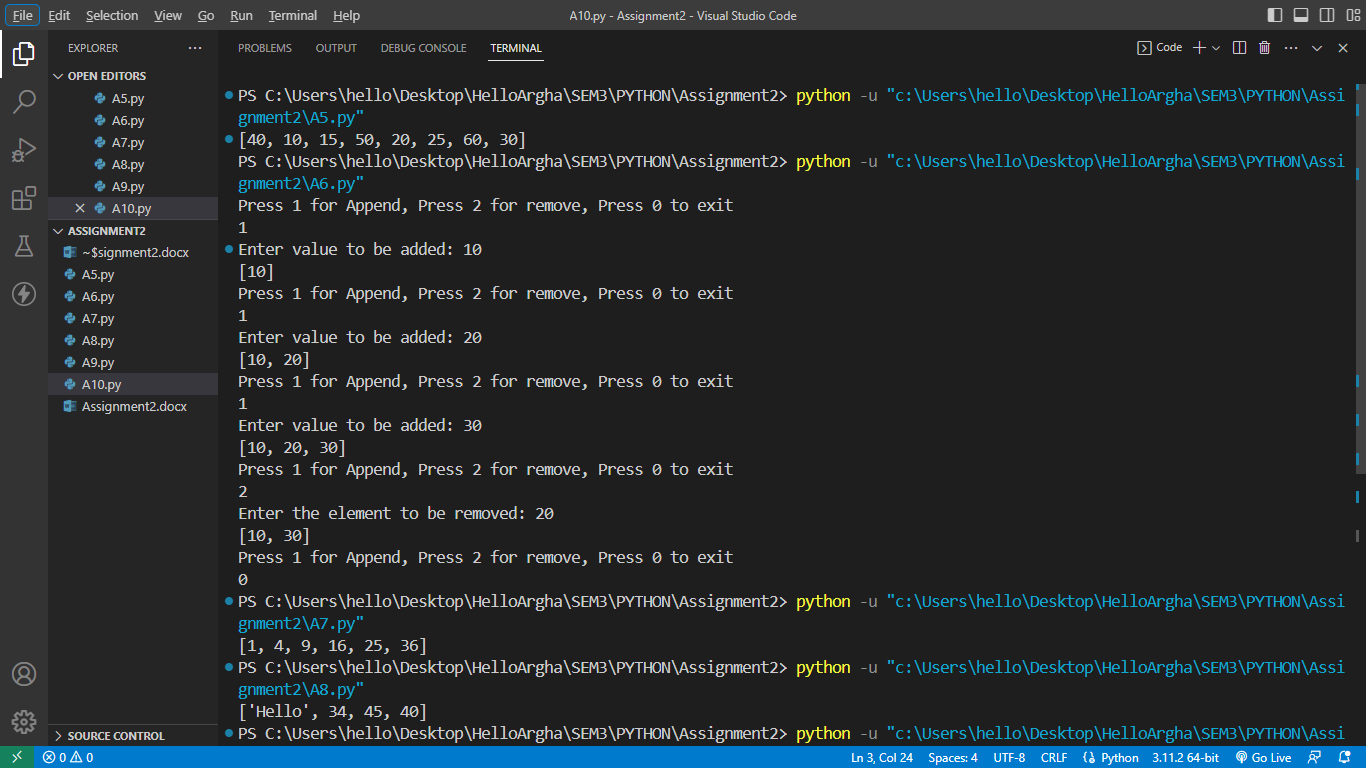
for i in num:

    if i not in new\_num:

        new\_num.append(i)

print(new\_num)

**OUTPUTS**

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