

1 gr	Experiment No -02
- 4	Aim: Program to Find the union of two 19sts
	The state of the s
1 1 2	Theory: He of increased as similar and like it
1 1 1 1 1 1 1	i in the manual of the state of
	Defination:
	Itst; list are used to store multiple Items In
- (Ly) 19	- I a single variable lists are one of 4 hert en
	gard Types in puthon used to store collection
	The other 3 ore Tuple set and Dicti-
	onary all which different quartities and wage list
()	are created Square brackets.
	Example of dist. initial and another and details
	Coent. dist
	code: this lest = ["apple", "banana", "chesry"]
	print (this = list]
	output: ["apple", "banana", "cherry"]
	o append function in dût -
	Append items: To add an item ito the end of
	the list, use the append () method Example:
11	
	J. D. C.
28	print (dut)
	Output: ('apple', 'banana', cherry', 'orange')
	· Extend function Pn 18st-
	10000000000000000000000000000000000000
	extend as used to append element from another dist
1 " 32	to the current list, use the extend ()
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method.
Example:
Add the elements of tropical to the dist
Code: this list = ["apple", "banana", "cherry"]
tropical = [" mango", "prineapple", "papaya"
this list extend (topical)
print (this-list)
Output : [" apple", " banona", "cherry", " mango",
"pineaple", "papaya"]
· Accept the list from the user and perform
Addition on the given 18t
IPSt 1 = []
n = Int (input (" Enter size of list 1:"))
for i in range (o,n):
element = int Cinput ("Enter size the element to be
En IPst:")
list 1 append (element)
print (" l'est will be", list 1)
$\frac{1}{2} \left(\frac{1}{2} \right) \left(1$
n = Int (input ("Enter size of diet 2:"))
for s in range (0, m): clement = int (input ("Enter the element to be in
uist 2:"))
dist 2. append (element)
print (" lut 2 will be", lut 2)
add = list 1 t list 2
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=	print (add) well am a realist to the
A The Market St.	Enter size of dist 1:3
1113	Enler the element to be in list 1:5
	Enter the element to be in list 1:6
	Enter the element do be 9n 19st 1:7
	dist 1 will be [5,6,7]
	Enter the size of 19st 2:2
-	Finter the element to be in 19st 2:9
*	Enter the element to be in list 2:8
	list 2 will be [9.8]
	[5,6,7,9,8]
,	
	· Union of two dist:
-	It means we must take all the element from
	list A and dit B Cthere can be more than
	two dists) and put them inside a single next dist. There are parious order in which
27	next dist. There are various order in which
- E O H H	we can combine the dists.
75 te	Example - we can maintain the repretition
	and order or remove the repeated elements
	en the final dist and so on.
	Inputation and a minute of the second
•=	List 1 = [23, 15, 2, 14, 16, 20, 52]
	uist 2 = [2,48,8,15,12,26,32,47,54]
	Dutput ; [23,15,2,14,16,20,52,2,48,15,12,126,32,]
	47,54
,	



	Trend platents or press
	· Set union c) method (Idan) fring
	The union () method returns a set that contains
	all items from the original set, are all
	9 tems from specified set (s)
	Syntax ! I do la maish all a selfat !!
	Set voion (set 1, set 2.)
	<u> </u>
	Code : 3e = { (a), (b), (c)
	z = z'(c), (d), (e) z $z = z'(c), (d), (e) z$
	z = & (c), (d), (e) 300 1 4 11 4
	result = 21. Union (4,2)
	print (result)
	Output: & (a), (f), (b), (e), (c), (d) }
1 111.	
	Conclusion was a resided in the sail to
1	The second laboration shows the
	In this practical date we have shown the
	of two dist uses I wo list is list 1
	& dist 2 Among the dist1 & lis 2.
	Among the dist 2 f list 2 we have to
	write the union of two dut.
	Vertical and a second s
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	· doubling the state of the sta

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In [1]: *programe 1
list1=[1,2,3,4,5,6]
list2=[2,3,4,5,6,7,8]
list1.extend(list2)
                     print(list1)
                     [1, 2, 3, 4, 5, 6, 2, 3, 4, 5, 6, 7, 8]
   [1, 2, 3, 4, 'hi', 'bye', 'die']
In [13]: list1=[1,2,3,4]
list1.append(5)
print(list1)
                   [1, 2, 3, 4, 5]
 In [2]: #programme 2
list1=[1,2,3,4,5,6]
list2=[2,3,4,5,6,7;8]
print(list1)
print(list2)
for element in list1:
lif element not in list2:
list2.append(element)
print("union of two list is:",list2)
                   [1, 2, 3, 4, 5, 6]
[2, 3, 4, 5, 6, 7, 8]
Union of two list is: [2, 3, 4, 5, 6, 7, 8, 1]
   In [3]: #programme 3
                   #programme 3
a=[]
b=[]
n = int(input("Enter number of elements for list: "))
for i in range(0, n):
    ele=int(input())
    a.append(ele)
m = int(input("Enter number of elements for list2: "))
for j in range(0,m):
    ele=int(input())
    b.append(elem)
print(a)
print(b)
                   for element in a:
if element not in b:
b.append(element)
                   print("Union of two list is:",b)
                     Enter number of elements for list1: 2
                     Enter number of elements for list2 : 1
                     [1, 2]
[1]
                     Union of two list is: [1, 2]
  In [11]: #programme 4
list1= {2, 4, 5, 6}
list2= {4, 6, 7, 8}
result=list1.union(list2)
                     print(list(result))
                     [2, 4, 5, 6, 7, 8]
```

AND