In [2]:	
	12 = ["hello", 10, 2.4] print(12)
In []:	['hello', 10, 2.4] 3. What is the difference between a list and a tuple.
	Ans: Lists are mutable while tuples are immutable.
In [3]:	l1 = ["pritam", 10, 5] l1[1] = "soni" print(l1)
In [4]:	['pritam', 'soni', 5] t1 = (12, 5, "pritam")
	t1[0] = "hello" print(t1)
	<pre>TypeError</pre>
	> 2 t1[0] = "hello" 3 print(t1) TypeError: 'tuple' object does not support item assignment
In []:	4. How to find the number of elements in the list?
In [5]:	Ans: By len() function. len(l1)
Out[5]:	
In []: In [6]:	
	<pre>if len(12) == 0: print("Above list is empty!") else: print("Above list is not empty!")</pre>
In []:	Above list is empty! 6. How to find the first and last element of the list?
In [12]:	<pre>13 = [10, 5, 4.6, "india", 89, 13, 4, 1, 0, 9] print(f"first element in the above list is {13[0]}") print(f"last element in the above list is {13[-1]}")</pre>
	first element in the above list is 10 last element in the above list is 9
In []:	7. How to find the largest and lowest value in the list?
In [17]:	Ans: By min() and max() funtion. 14 = [4,12,0,6,3,89,45]
	<pre>print(f"maximum value: {max(14)}") print(f"minimum value: {min(14)}") maximum value: 89</pre>
In []:	8. How to access elements of the list?
In [23]:	
	<pre>print(f" last element: {13[-1]}") print(f" first fifth elements: {13[:5]}") print(f" last fifth elements: {13[-5::]}")</pre>
	first element: 10 last element: 9 first fifth elements: [10, 5, 4.6, 'india', 89] last fifth elements: [13, 4, 1, 0, 9]
In []:	last fifth elements: [13, 4, 1, 0, 9]9. Remove elements in a list before a specific index.
In [26]:	13.remove(13[2]) print(13) 13.pon(3)
	13.pop(3) print(13) [10, 5, 89, 13, 4, 1, 0, 9]
In []:	[10, 5, 89, 4, 1, 0, 9] 10. Remove elements in a list between 2 indices.
	15 = [10, "hello", 23, 2.5, 210] del 15[1:2]
	print("After removing element between indices 0 and 1: ", 15) After removing element between indices 0 and 1: [10, 23, 2.5, 210]
	11. Return every 2nd element in a list between 2 indices.
ın [46]:	<pre>16 = [10, 52,1,0,3,9,56,448,101,9] print(f"Every 2nd element in above list: {16[1:10:2]}") Every 2nd element in above list: [52, 0, 9, 448, 9]</pre>
In []:	12. Get the first element from each nested list in a list.
[n [70]:	<pre>17 = [[1,2,3],[4,5,6],[7,8,9]] for i in 17: print(i[0], end="\n")</pre>
	1 4 7
In []:	13. How to modify elements of the list?
In [741·	Ans: By using assignment operator to corresponding indices. 18 = ["pritam", 15, 2.3, 5]
[· 7]•	18[0]= <mark>"india"</mark> print(18)
In []:	['india', 15, 2.3, 5] 14. How to concatenate two lists?
[n [7 <u>5</u>].	Ans: By '+' operator 19 = [1,2,3]
[/5]:	l10 = [8,9,10] print(f"After concatenate 19 and l10: {19+l10}")
In []:	After concatenate 19 and 110: [1, 2, 3, 8, 9, 10] 15. How to add two lists element-wise in python?
	Ans: By mapping.
in [81]:	
	<pre>from operator import add add_list = list(map(add, 19, 110)) print("After adding lists 19 and 110 element wise: ", add_list)</pre>
	<pre>add_list = list(map(add, 19, 110))</pre>
	<pre>add_list = list(map(add, 19, 110)) print("After adding lists 19 and 110 element wise: ", add_list) After adding lists 19 and 110 element wise: [9, 11, 13] 16. Difference between del and clear? Ans: The del keyword is used to delete objects. In Python everything is an object, so the del keyword can also be used to delete variables, lists, or parts of a list etc.</pre>
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In []: In []: In []: In []: In []: In []: In [90]: Out [90]: In [91]: Out [91]:	add_list = list(map(add, 19, 120)) After adding lists 10 and 110 element wise: ", add_list) After adding lists 10 and 110 element wise: [9, 11, 13] 16. Difference between del and clear? Ans: The del keyword is used to delete objects. In Python everything is an object, so the del keyword can also be used to delete variables, lists, or parts of a list etc. The clear is used to clear the entire list. 17. Difference between remove and pop? Ans: Remove is used to remove a specific item from the list whereas pop delete the item from a particular index. 18. Difference between append and extend? Ans: Append is used to add a single element in the list to the last position while extend is used to add a series of elements in the list by assigning them in a single line. 19. Difference between indexing and Slicing? Ans: Indexing is used to access a single element from the list while slicing is used to access series of elements or we can say range of elements from the given list. 20. Difference between sort and sorted? Ans: sort function will modify the list it is called on whereas the sorted function will create an ewellst containing a sorted version of the given list. 21. Difference between reverse and reversed? Ans: Reverse function returns the reverse version of a list while reversed function not actually reverse the list, it returns an object that can be used to iterate over the container's elements in reverse order. 22. Difference between copy and deepcopy? Ans: A shallow copy constructs a new compound object and then inserts references into it to the objects found in the original. A deep copy constructs a new compound object and then inserts references into it to the objects found in the original. A deep copy constructs a new compound object and then inserts references into it to the objects found in the original. A see By using set function. 111 = [1,2,4,1,5,4,2,3,4,2,1,5,4,2,5] 124. How to find an index of an element in the python list? Ans: By using index function.
In []: In [90]: In [90]: In [90]: In [91]:	add_list = list(map(add, 19, 120)) After adding lists 19 and 110 element wise: ", add list) After adding lists 19 and 110 element wise: ", add list) After adding lists 19 and 110 element wise: [9, 11, 13] 16. Difference between del and clear? Ans: The del keyword is used to delate objects. In Python everything is an object, so the del keyword can also be used to delate variables, lists, or parts of a list etc. The clear is used to clear the entire list. 17. Difference between remove and pop? Ans: Remove is used to remove a specific item from the list whereas pop delete the item from a particular index. 18. Difference between append and extend? Ans: Append is used to add a single element in the list to the last position while extend is used to add a series of elements in the list by assigning them in a single line. 19. Difference between indexing and Slicing? Ans: Indexing is used to access a single element from the list while slicing is used to access series of elements or we can asy range of elements from the given list. 20. Difference between sort and sorted? Ans: sort function will modify the list it is called on whereas the sorted function will create a new list containing a sorted version of the given list. 21. Difference between reverse and reversed? Ans: Reverse function returns the reverse version of a list while reversed function not acted liy reverse the list, it returns an object that can be used to iterate over the container's elements in reverse conder. 22. Difference between copy and decepopy? Ans: A shallow copy constructs a new compound object and then inserts references into it to the objects found in the original. 23. How to find an index of an element in the list? Ans: By using set function. 111 = [1, 2, 4, 1, 5, 4, 2, 3, 4, 2, 1, 5, 4, 2, 5] 124. How to find the occurrences of an element in the python list? Ans: By using index function.
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In []: In []: In []: In []: In []: In []: In [90]: In [90]: In [90]: In [90]: In [90]: In [91]: In [91]:	add list = list(apq(add, 19, 190)) print("After adding lists 19 and 110 element wise: ", add_list) After adding lists 19 and 130 element wise: [9, 11, 13] 18. Difference between del and clear? Ans: The del keyword is used to delete objects. In Python everything is an object, so the del keyword can also be used to delete variables, lists, or parts of a list etc. The clear is used to clear the entire list. 17. Difference between remove and pop? Ans: Remove is used to remove a specific item from the list whereas pop delete the item from a particular index. 18. Difference between append and extend? Ans: Append is used to add a single element in the list to the last position while extend is used to add a series of elements in the list by assigning them in a single lime. 19. Difference between indexing and Slicing? Ans: Indexing is used to access a single element from the list while slicing is used to access a series of elements. The or we can say range of elements from the given list. 20. Difference between sort and sorted? Ans: Sort function will modify the list it is called on whereas the sorted function will are ate. a new list containing a sorted version of the given list. 21. Difference between reverse and reversed? Ans: Reverse function returns the reverse version of a list while reversed function not act all years. 22. Difference between copy and decepopy? Ans: A shallow copy constructs a new compound object and then inserts references into it to the objects found in the original. 23. How to remove duplicate elements in the list? Ans: By using set function. 111 = [1, 2, 4, 1, 5, 4, 2, 3, 4, 2, 1, 5, 4, 2, 5] 1151(set[113]) 24. How to find an index of an element in the python list? Ans: By using index function. 111. Lindex(3) 7 25. How to find the occurrences of an element in the python list? Ans: By using index function. 112 = [1, 2, 4, 5]
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In []: In []: In []: In []: In []: In [90]: Out [90]: In []: In [91]: In [91]: In [91]: In [91]:	add_list = list(map(add, 10, 109)) print("After adding lists 10 and 110 element wise: ", add_list) After adding lists 10 and 110 element wise: [9, 11, 13] 10. Difference between del and clear? Ans: The del knyword is used to delete objects, in Python everything is an object, so the del knyword can also be used to delete variables, lists, or parts of a list etc. The clear is used to element and pop? Ans: Remove is used to remove and pop? Ans: Remove is used to remove aspecific item from the list whereas pop delete the item from a particular index. 10. Difference between append and extend? Ans: Append is used to add a single element in the list to the last position while extend is used to add a series of elements in the list by assigning them in a single limit. 10. Difference between indexing and Slicing? Ans: Indexing is used to access a single element from the list while slicing is used to access series of elements. 10. Difference between sort and sorted? Ans: Sort function will modify the list it is called on whereas the sorted function will create a new list containing a sorted version of the given list. 21. Difference between reverse and reversed? Ans: Reverse function returns the reverse version of a list while reversed function mate act all verses to the list, it returns an object that can be used to iterate over the container's elements in reverse order. 22. Difference between copy and deepcopy? Ans: A shallow copy constructs a new compound object and then inserts references into it to the objects found in the original. A deep copy constructs a new compound object and then inserts references into it to the objects found in the original. A deep copy constructs a new compound object and then inserts references into it to the objects found in the original. A step polyment of the container's cleaners in the object found in the original. A step polyment or the object found in the original. A step polyment of the original or the original or the original original original original original or
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In []: In [90]: Out [90]: In []: In []: In []: In []:	and_list = list(map(aud), 10, 109) print("After adding lists 19 and 150 element wise: ", and list) After adding lists 19 and 150 element wise: [9, 13, 33] 10. Difference between del and clear? Ans: The dab keyword is seed to delete dijects. In Python everything is an object, so the clear is used to clear the entire list. 17. Difference between remove and pop? Ans: Remove is used to remove aspecific item from the list whice as populate the liter from a particular index. 18. Difference between append and extend? 19. Difference between append and extend? 19. Difference between indexing and Slicing? Ans: Append is used to add a single element in the list to the last position while extend is used to add a sories of elements in the list by assigning them in a single 11 en. 19. Difference between indexing and Slicing? Ans: Indexing is used to access a single element from the list while slicing is used to access so rive can say range of elements from the given list. 20. Difference between sort and sorters? Ans: Server function wall modify the list it is called on whereas the sorted function will ore at men list containing a sorted version of the given list. 21. Difference between reverse and reversed? Ans: Reverse function returns the reverse version of a list while reversed function and access a single selements in reverse order. 22. Difference between copy and deepcopy? Ans: A shallow copy constructs a new compound object and then inserts references into it to the objects found in the original. A deep copy constructs a new compound object and then inserts references into it to the objects found in the original. A deep copy constructs a new compound object and then inserts references into it to the objects found in the original. A low to find the occurrences of an element in the python list? Ans: By using index function. 111 - [1,2,2,4,1,5,4,2,3,4,2,1,5,4,2,8] 122 - [1,2,4,5] 123 - [1,2,4,5] 124 - [1,2,4,5] 125 - [1,2,4,5] 126 - [1,2,4,5] 127 - [1,2,5,4,5] 128 - [1,2,5,4,5] 129 - [1,2,5,4
In []: In [90]: Out [90]: In []: In [91]: Out [91]: In []: In []:	and list = list(imm)(add, 19, 130) After adding lists 19 and 100 element wise: [9, 11, 13] 15. Difference between dol and clear; Ass: the dol keyword is used to delete objects. In Python everythinn is an object, so the deal keyword an also be used to delete variables, lists, or parts of a list etc. The clear is used to clear the entire list. 17. Difference between remove and pop? Ass: Remove is used to remove a specific item from the list with the same of the clear is used to clear the entire list. 18. Difference between append and extend? Ass: Append is used to add a series of elements in the list to the last position while extend is used to add a series of elements in the list to the last position while extend is used to add a series of elements in the list to the last position while extend is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the list while sliring is used to access a single element from the given list. 20. Difference between sort and sorted version of the given list. 21. Difference between copy and deepcopy? Ans: A shallow copy constructs a new compound object and then inserts references into it to the objects found in the original. 22. How to find the occurrences of an element in the pytho
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In []: In []: In []: In []: In []: In [9]: In [90]: In [90]: In [91]: In [91]: In [95]: In [95]:	add_list = list(map(add, 19, 100) print("After adding lists 19 and 100 element wise: ", add_list) After adding lists 19 and 110 element wise: [9, 11, 13] 10. Difference between del and clear; After adding lists 19 and 110 element wise: [9, 11, 13] 10. Difference between a sus do to dealer objects. In Python everything is an object, so the deal keyword can also be used to dealer wriables, lists, or parts of a list etc. The claer is used to clear the entire list. 17. Difference between remove and pmp? Ans: Removo is used to can are a form first intended the sus and the list whereas pole elect the item from a partitular index. 18. Difference between append and extend? Ans: Append is used to add a simple clement in the list to the last position while extends is used to add a simple clement in the list to the last position while extends is used to access a simple clement from the list while slicing is used to access a simple clement from the list while slicing is used to access a simple clement from the list while slicing is used to access or one can say range or elements from the pive list. 20. Difference between sort and sorted? Ans: sort trunction will modify the list it is called on whereas the sorted function will or a new list containing a lorted version of the given list. 21. Difference between reverse and reversed? Ans: Reverse function returns the reverse version of a list while reverse function mot act. 22. Difference between copy and december. 23. Difference between copy and december. 24. Pure list, it returns an object that can be used to iterate over the container's elements in reverse order. 25. Difference between copy and december. 26. Pure list, it returns an even position? 27. Ans: One to remove doubleate elements in the list? 28. How to find the occurrences of an element in the python list? 29. How to find the occurrences of an element in the python list? 29. How to insert an item at a given position? 29. List, 2, 4, 5, 1 20. Now to faster a list in spthon? 20. Now to faster
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In []: In []: In []: In []: In []: In [90]: Out [89]: In []: In [91]: Out [91]: In [95]: In [95]: In [95]:	ade_List _ isstingladd, 15, 190) print("After adding lists 19 and 10 clement wise: ", and list) After adding lists 19 and 10 element wise: [8, 11, 13] 10. Difference between del and clear? Ans: The dels knyword is used to deel coincers. In Python everytaing is an apicot, so the dels knyword can also be used to belief between the list wise and to clear the entire list. 17. Difference between renove and 200? Ans: Amount of the entire list. 18. Difference between renove and 200? Ans: Amount is another remove a specific (tem from the list whereas pay delete the list from a particular index.) 18. Difference between indexing and Sitting? Ans: Amount is used to add a series of clements in the list to the last opicition while extend is used to add a series of clements in the list while slicing is used to access a single element from the list while slicing is used to access a single element from the list while slicing is used to access a single element from the list while slicing is used to access a single element from the list while slicing is used to access a single element from the list while slicing is used to access a single element from the list while slicing is used to access a single element from the list while slicing is used to access a single element from the list while slicing is used to access a single element from the list while slicing is used to access a series of elements 10. Difference between reverse and sorted? 21. Difference between reverse and reversed? 22. Difference between reverse and reversed? 23. Difference between reverse and reversed? 24. Difference between copy and deepcopy? 25. How to renove duplicate element is the just and them insents references into it to the adjects from a list with list. 26. How to renove duplicate elements in the list? 27. How to renove duplicate elements in the python list? 28. How to renove duplicate elements in the python list? 29. How to renove duplicate elements in the list? 20. How to renove duplicate elements in the list? 21. List. How to the
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In []: In []0]:	add into: Instringation [10, 10] information between del and clear in each keyword can also be used to elected variables, lists, or parts of a list etc. in offermance between del and clear in cliffermance between del and clear in cliffermance between del and clear in cliffermance between amove and pope and for each word of a clear for other in control tist. in cliffermance between append and externor in cliffermance between and to add a series of elements in the list by assigning them in a simple life. in cliffermance between and to add a series of elements from the list while allocing is used to access a single element from the list while allocing is used to access or be can say range of elements from the given list. in Differmore between and accretor Ass. soort function will another the list that can be used to iterate over the container's court function exit in another than a simple life. in containing a control version of the given list. in lifermore between capy and deepency ass. A soallow copy constructs a new companied object and then issorts reterences into it to the objects found in the virialist. in lifermance order. in lifermance order. in lifermance between capy and deepency ass. Ay aving out function. in [2, 2, 3, 4, 6] in lifermance order. in lifermance orde
In []: In []: In []: In []: In [90]:	and riest = instringinguing, 10, 190) print("Noter adming lists to and 100 closent wise: 10, 11, 13] After adming lists to and till closent wise: 10, 11, 13] And: The deb keyword as used to delere objects. In Pythan everything is an object, on the close is used to clear the entire list, vertables, lists, or parts of a list etc. The deb keyword as used to clear the entire list, vertables, lists, or parts of a list etc. The deb keyword as used to clear the entire list. 2. Difference between recove and page? And: Entered is used to add a sincle element in the list to the last position while researched is used to add a sincle element in the list by anxigning them as a simple list. 2. Difference between append and exclud? And: Indexted is used to add a sincle element in the list by anxigning them as a simple list. 2. Difference between add is across of closenets as the list by anxigning them as a simple list. 2. Difference between add is across of add as since the size of closents from the given list. 2. Difference between recers and secretar assets of closents from the given list. 2. Difference between recers and reversed? And: Secretar function will madify the list is tabled on whereas the sorted function not act all the size of closents are sorted version of the given list. 2. Difference between recerse and reversed? And: Pythan lists, the returns an object that can be used to iterate over the containor's elements. In reverse order. 2. Difference between copy and deepoopy? Ans: A wholl am copy constructs a new companed captor and the shareful retrocence where the received provides and the original. 2. How to renove dualizate elements in the list? Ans: By using not function. 11 (1,2,4,1),5,4,2,5,4,2,3,4,2,3,5,4,2,5,5,4,2,5] 11 (1,2,4,1),5,4,2,5,4,2,3,4,2,3,5,4,2,5,5,4
In []: In []01 []: In []	and there i instringinguis, 18, 1800 180 Element wise: ", add_list) After adding lists 10 and 150 closure wise: 10, 11, 13] 8. Difference between del and clear? Ass: The deal reyword is used to selete objects. To Python everything is an object, 10 the closure studenth studenth object and is received and the clear objects. The Python everything is an object, 10 the closure studenth studenth object and is received and the clear objects. The Python everything is an object, 10 the closure studenth studenth object objects. The Python everything is an object, 10 the closure studenth studenth object objects. The Python everything is an object, 10 the closure studenth object objects. The Python everything is studenth object objects that the list to the last postston while received is used to add a single olement in the list to the last postston while received is used to add a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list while sincing is used to access a single olement from the list? Assistance of the single olement from the list? Assistance of the single olement from the list? Assistance olement fr
In []: In []: In []: In []: In [9]: In [90]: In [90]: In [91]: In [91]: In [95]: In [95]: In [96]: In [96]: In [96]: In [96]: In [96]: In [96]:	and inter intriguinguing lists is and iso element vise: ", and list) After adding lists by and live element vise: [9, 11, 12] 3. Oifference between del and clear? Ass: The del knywerd is used to adorst eagents. In Python everything is an object, so the clear is used to clear the entire list. 7. Difference between recover and pop? And: Remove is used to relove a specific leven from the list which clear is used to clear the entire list. 8. Oifference between crown and pop? And: Remove is used to relove a specific leven from the list which established a specific leven from the list which established is used to add a single element in the list to the last position while recovered is used to add a single element in the list by assigning them in a single life. 9. Difference between outpaid and aftering? And: Interional between server and sources of elements an the list by assigning them in a single life. 9. Difference between server and sources of the given list. 9. Difference between server and sources? 9. Difference between server and sources? 9. Difference between reverse and reversed? 9. Difference between reverse and socked that can be used to iterate over the container's elements in reverse offer. 9. Difference between reverse decreased of place and then inserts references into 11 to the objects found in the arganil. 10. Index to recover duplicate elements in the list? 9. Difference between reverse of an element in the python list? 9. Difference between reverse of

Ans: lists are stored **in** distinct chunks of memory which are linked together **with** pointers, which enables efficient use of memory generally **and** doesnt require resizing.

In [114]: d = [1,2,3,4,5,6,7,8,9]
d_filtered = filter(lambda item: item>6, d)
print("Fitered list: ", list(d_filtered))

In []: 32. How python lists are stored in memory?

Fitered list: [7, 8, 9]

In []: 1. Is a list mutable?

['pritam', 'soni', 5]

Ans: yes, lists are mutable

In []: 2. Does a list need to be homogeneous?