

LIST Exercises

Q1. Write a program to print all the elements of given list using for loop.

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A= ['a','b','c','d','e']
```

Q2. Write a program to print all the characters of strings/elements of given list using for loop.

```
A= ["amit","samit","vijay","Rakesh"]
```

Q3. Write a program to create list of the following (take input from the user)

- a. Any five students name
- b. Any five numbers
- c. Any five alphabets
- d. Any five name of colors.

Q4. Write a program to accept 10 numbers from the user, if the number is odd, and then add that number to the list.

Input:if numbers are: 1,2,3,4,5,6,7,8,9,10

Output: L = [1, 3, 5, 7, 9])

Q5. Write a program to delete/remove all the negative elements from the list.

Q6. Write a program to delete/remove all the odd numbers from the list.

Q7. Write a program to delete/remove all the numbers less than 10 from the list.

Q8. Write a program to input a number and count the occurrence of that number in the given list.

```
B = [34,21,3,12,34,56,76,5,4,21,12,34]
```

Q9. Write a program to separate the character and numeric value from a given list and store them in a separate list.

```
A = [1,2,'b',3,4,'h','j',6,9,0,'k']
```

Q10. Write a program to add a number to all the elements of a list.

Q11. Write a program that inputs two lists and creates a third, that contains all elements of the first followed by all elements of the second.

Q12. Write a program to ask the user to enter a list of strings. Create a new list that consists of those strings with their first characters removed.

Input: Enter a list of strings: ["red", "green", "blue", "pink", "cyan"]

Output: List after removing first characters: ['ed', 'reen', 'lue', 'ink', 'yan']

Q13. Create the following lists using a for loop:

A list containing the squares of the integers 1 through 50.

Output: List with square of integers from 1 to 50:

[1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144,.....]

Q14. Create the following lists using a for loop:

The list ['a','bb','ccc','dddd', . . .] that ends with 26 copies of the letter z.

Q15. Write a program that takes any two lists L and M of the same size and adds their elements together to form a new list N whose elements are sums of the corresponding elements in L and M. For instance, if L = [3, 1, 4] and M = [1, 5, 9], then N should equal [4,6,13].

Q16. Write a program to display the maximum and minimum values from the specified range of indexes of list.

Output: Enter the list: [89, 42, 12, 56, 35, 2, 8, 7, 13, 69]

Enter start index: 3

Enter stop index: 8

Maximum = 56

Minimum = 2

Q17. Take 10 integer inputs from user and store them in a list. Now, copy all the elements in another list but in reverse order.

Q18. Take 10 integer inputs from user and store them in a list. Again ask user to give a number. Now, tell user whether that number is present in list or not.(Iterate over list using while loop).

Q19. Write a program to move all duplicate values in a list to the end of the list.

Output: Enter the list: [20, 15, 18, 15, 7, 18, 12, 13, 7]

Modified List: [20, 15, 18, 7, 12, 13, 15, 18, 7]

Q20. Write a program to compare two equal sized lists and print the first index where they differ.

Output: Enter two equal sized lists

Enter first list: [80, 60, 50, 40, 30]

Enter second list: [80, 60, 55, 42, 30]

Lists differ at index 2

Q21. Write a python program to find average of 15 numbers in a list.

Q22. Write a python program to add two 3 * 3 Matrix.