------------------------------------------------------------------------------------------

h\_letters = []

for letter in 'human':

h\_letters.append(letter)

print(h\_letters)

h\_letters = [ letter for letter in 'human' ]

print( h\_letters)

letters = list(map(lambda x: x, 'human'))

print(letters)

number\_list = [ x for x in range(20) if x % 2 == 0]

print(number\_list)

num\_list = [y for y in range(100) if y % 2 == 0 if y % 5 == 0]

print(num\_list)

obj = ["Even" if i%2==0 else "Odd" for i in range(10)]

print(obj)

matrix = [[1, 2], [3,4], [5,6], [7,8]]

transpose = [[row[i] for row in matrix] for i in range(2)]

print (transpose)

**Python List Methods**

* **Python List** append() Add a single element to the end of the **list**.
* **Python List** extend() Add Elements of a **List** to Another **List**.
* **Python List** insert() Inserts Element to The **List**.
* **Python List** remove() Removes item from the **list**.
* **Python List** index() ...
* **Python List** count() ...
* **Python List** pop() ...
* **Python List** reverse()

### [Python List append()](https://www.programiz.com/python-programming/methods/list/append)

Add a single element to the end of the list

### [Python List extend()](https://www.programiz.com/python-programming/methods/list/extend)

Add Elements of a List to Another List

### [Python List insert()](https://www.programiz.com/python-programming/methods/list/insert)

Inserts Element to The List

### [Python List remove()](https://www.programiz.com/python-programming/methods/list/remove)

Removes item from the list

### [Python List index()](https://www.programiz.com/python-programming/methods/list/index)

returns smallest index of element in list

### [Python List count()](https://www.programiz.com/python-programming/methods/list/count)

returns occurrences of element in a list

### [Python List pop()](https://www.programiz.com/python-programming/methods/list/pop)

Removes element at the given index

### [Python List reverse()](https://www.programiz.com/python-programming/methods/list/reverse)

Reverses a List

### [Python List sort()](https://www.programiz.com/python-programming/methods/list/sort)

sorts elements of a list

### [Python List copy()](https://www.programiz.com/python-programming/methods/list/copy)

Returns Shallow Copy of a List

### [Python List clear()](https://www.programiz.com/python-programming/methods/list/clear)

Removes all Items from the List

### [Python any()](https://www.programiz.com/python-programming/methods/built-in/any)

Checks if any Element of an Iterable is True

### [Python all()](https://www.programiz.com/python-programming/methods/built-in/all)

returns true when all elements in iterable is true

### [Python ascii()](https://www.programiz.com/python-programming/methods/built-in/ascii)

Returns String Containing Printable Representation

### [Python bool()](https://www.programiz.com/python-programming/methods/built-in/bool)

Converts a Value to Boolean

### [Python enumerate()](https://www.programiz.com/python-programming/methods/built-in/enumerate)

Returns an Enumerate Object

### [Python filter()](https://www.programiz.com/python-programming/methods/built-in/filter)

constructs iterator from elements which are true

### [Python iter()](https://www.programiz.com/python-programming/methods/built-in/iter)

returns an iterator

### [Python list()](https://www.programiz.com/python-programming/methods/built-in/list)

creates a list in Python

### [Python len()](https://www.programiz.com/python-programming/methods/built-in/len)

Returns Length of an Object

### [Python max()](https://www.programiz.com/python-programming/methods/built-in/max)

returns the largest item

### [Python min()](https://www.programiz.com/python-programming/methods/built-in/min)

returns the smallest value

### [Python map()](https://www.programiz.com/python-programming/methods/built-in/map)

Applies Function and Returns a List

### [Python reversed()](https://www.programiz.com/python-programming/methods/built-in/reversed)

returns the reversed iterator of a sequence

### [Python slice()](https://www.programiz.com/python-programming/methods/built-in/slice)

returns a slice object

### [Python sorted()](https://www.programiz.com/python-programming/methods/built-in/sorted)

returns a sorted list from the given iterable

### [Python sum()](https://www.programiz.com/python-programming/methods/built-in/sum)

Adds items of an Iterable

### [Python zip()](https://www.programiz.com/python-programming/methods/built-in/zip)

Returns an iterator of tuples