```
#Assign a list to an variable named my list
my_list = [1,2,3,4]
print(my_list)
 → [1, 2, 3, 4]
type(my_list)
 → list
my_list = ['A string', 23, 100.232, '0', True]
my_list
 → ['A string', 23, 100.232, '0', True]
len(my_list)
 → 5
ist of strings
ons = ['Mean Absolute Error', 'Mean Squared Error', 'Huber Loss', 'Log Loss', 'Hinge Loss']
functions)
     ['Mean Absolute Error', 'Mean Squared Error', 'Huber Loss', 'Log Loss', 'Hinge L
#Grab the element at index 9, which is the FIRST element
print(loss_functions[0])
 → Mean Absolute Error
len(loss_functions)
 \rightarrow
     5
#Grab the element at index 3, which is the FOURTH element
print(loss_functions[3])
 → Log Loss
#Grab the element at the Index -1, which is the LAST element
print(loss_functions[-1])
```

```
→ Hinge Loss
#Grab the element at the index -3, which is the THIRD LAST element
print(loss_functions[-3])
    → Huber Loss
#Print our list
print(loss_functions)
    ['Mean Absolute Error', 'Mean Squared Error', 'Huber Loss', 'Log Loss', 'Hinge Loss', 'State of the control of 
#Grab the elements starting from index 1 and everything past it
loss_functions [1:4]
    → ['Mean Squared Error', 'Huber Loss', 'Log Loss']
#Grab everything starting from index 2
loss_functions[2:]
    → ['Huber Loss', 'Log Loss', 'Hinge Loss']
#Grab everything before the index 4
loss_functions[:4]
    ['Mean Absolute Error', 'Mean Squared Error', 'Huber Loss', 'Log Loss']
#Grab everything
print(loss_functions[:])
    环 ['Mean Absolute Error', 'Mean Squared Error', 'Huber Loss', 'Log Loss', 'Hinge L
#Grab the LAST FOUR elements of the list
loss_functions[-4:]
    ['Mean Squared Error', 'Huber Loss', 'Log Loss', 'Hinge Loss']
new_list = [6, 9, 1, 3, 5.51]
min(new_list)
```

```
my_new_list = ['c', 'b', 'z','y','']
min(my_new_list)
 →
new_list = ['Argue', 'Burglar', 'zarent', 'Linear', 'shape']
max(new_list)
 ⇒ 'zarent'
new_list = [6, 9, 1, 3, 5.5]
sum(new_list)
 → 24.5
print(new_list)
 \rightarrow [6, 9, 1, 3, 5.5]
new_list = ['Argue','Burglar','Parent','Linear','shape']
max(new_list)
 ⇒ 'shape'
new_list = ['Argue', 'Burglar', 'Parent', 'Linear', 'shape']
sorted(new_list)
 ['Argue', 'Burglar', 'Linear', 'Parent', 'shape']
print(new_list)
 ['Argue', 'Burglar', 'Parent', 'Linear', 'shape']
sorted(new_list, reverse=True)
 ['shape', 'Parent', 'Linear', 'Burglar', 'Argue']
sorted(new_list)
 ['Argue', 'Burglar', 'Linear', 'Parent', 'shape']
new_list
 🚁 ['Argue', 'Burglar', 'Parent', 'Linear', 'shape']
```

```
#Print the list
my_list
      → [1, 2, 3, 1, 1, 1, 3, 10, 5, 8]
len(my_list)
      → 10
print(my_list)
      → [1, 2, 3, 1, 1, 1, 3, 10, 5, 8]
#Show
my_list.append(2.73)
print(my_list)
len(my_list)
      [1, 2, 3, 1, 1, 1, 3, 10, 5, 8, 'Append me!', 'Append me!'
my_list.append([1,2,3])
len(my_list)
      → 19
my_list.append([10, [19,20],30])
my_list
      →
                            [1,
                                  2,
                                  3,
                                  1,
                                  1,
                                 1,
                                  3,
                                  10,
                                  5,
                                  8,
                                  'Append me!',
                                  2.73,
```

```
[1, 2, 3],
                                                                                          [10, [19, 20], 30]]
#Print the list
print(my_list)
                [1, 2, 3, 1, 1, 1, 3, 10, 5, 8, 'Append me!', 'Append me!'
my_list.extend(['Wubba", "Lubba', 'Dub Dub'])
print(my_list)
                [1, 3, 1, 1, 1, 3, 10, 5, 8, 'Append me!', '
 len(my_list)
                  → 22
#Print the list
print(my_list)
                  → [1, 2, 3, 1, 1, 1, 3, 10, 5, 8, 'Append me!', 'Append m
#Pop off the indexed iten
my_list.pop()
                  → 'Dub Dub'
#Assign the popped element, remember default popped index is -1
my_list.pop(1)
                → 2
len(my_list)
                  → 22
print(my_list)
                [1, 3, 1, 1, 1, 3, 10, 5, 8, 'Append me!', '
#Print the list
print(my_list)
                  → [1, 3, 1, 1, 1, 3, 10, 5, 8, 'Append me!', 'Append me!'
```

```
my_list.extend(['Wubba", "Lubba', 'Dub Dub'])
print(my_list)
       [1, 3, 1, 1, 1, 3, 10, 5, 8, 'Append me!', '
len(my_list)
       → 24
#Print the list
print(my_list)
       → [1, 3, 1, 1, 1, 3, 10, 5, 8, 'Append me!', 'Append me!'
#Pop off the indexed iten
my_list.pop()
       'Dub Dub'
#Assign the popped element, remember default popped index is -1
my_list.pop(1)
       → 3
len(my_list)
       → 22
print(my_list)
       → [1, 1, 1, 1, 3, 10, 5, 8, 'Append me!', 'Append me!', 'Append me!', 'Append me!'
#Use sort to sort the list (this is permanent!)
new_list.sort()
print(new_list)
       → ['Argue', 'Burglar', 'Linear', 'Parent', 'shape']
#Use the reverse boolean to set the ascending or descending order
new_list.sort(reverse=True)
print(new_list)
       → ['shape', 'Parent', 'Linear', 'Burglar', 'Argue']
```

```
boolean_list=[True, False]
boolean_list.sort(reverse=True)
print(boolean_list)
 → [True, False]
my_list = [1, 1, 1, 1, 1.43, 2, 3, 3, 5, 8, 18, 'Lubba', 'Dub Dub']
print(my_list)
 [1, 1, 1, 1, 1.43, 2, 3, 3, 5, 8, 18, 'Lubba', 'Dub Dub']
my_list.reverse()
print(my_list)
 → ['Dub Dub', 'Lubba', 18, 8, 5, 3, 3, 2, 1.43, 1, 1, 1, 1]
#Let's make three lists
 lst_1 = [1,2,3]
 lst_2 = ['b','a','d']
 lst_3 = [7,8,9]
#Make a list of lists to form a matrix
 list_of_lists = [lst_1,lst_2,lst_3]
print(list_of_lists)
 → [[1, 2, 3], ['b', 'a', 'd'], [7, 8, 9]]
my_list.reverse()
print(my_list)
 1, 1, 1, 1, 1.43, 2, 3, 3, 5, 8, 18, 'Lubba', 'Dub Dub']
#Show
type(list_of_lists)
 → list
#Grab first item in matrix object
list_of_lists[1]
 <del>→</del> ['b', 'a', 'd']
```

#Grab first item of the first item in the matrix object
list_of_lists[1]