Programs on List

my\_list = ['p','r','o','b','e']

# Output: p

print(my\_list[0])

# Output: o

print(my\_list[2])

# Output: e

print(my\_list[4])

# Error! Only integer can be used for indexing

# my\_list[4.0]

# Nested List

n\_list = ["Happy", [2,0,1,5]]

# Nested indexing

# Output: a

print(n\_list[0][1])

# Output: 5

print(n\_list[1][3])

Negative Indexing

my\_list = ['p','r','o','b','e']

# Output: e

print(my\_list[-1])

# Output: p

print(my\_list[-5])

How to slice lists in Python

my\_list = ['p','r','o','g','r','a','m','i','z']

# elements 3rd to 5th

print(my\_list[2:5])

# elements beginning to 4th

print(my\_list[:-5])

# elements 6th to end

print(my\_list[5:])

# elements beginning to end

print(my\_list[:])

To add elements to the list

# mistake values

odd = [2, 4, 6, 8]

# change the 1st item

odd[0] = 1

# Output: [1, 4, 6, 8]

print(odd)

# change 2nd to 4th items

odd[1:4] = [3, 5, 7]

# Output: [1, 3, 5, 7]

print(odd)

odd = [1, 3, 5]

odd.append(7)

# Output: [1, 3, 5, 7]

print(odd)

odd.extend([9, 11, 13])

# Output: [1, 3, 5, 7, 9, 11, 13]

print(odd)

odd = [1, 3, 5]

# Output: [1, 3, 5, 9, 7, 5]

print(odd + [9, 7, 5])

#Output: ["re", "re", "re"]

print(["re"] \* 3)

Insert method to insert one item or multiple items

odd = [1, 9]

odd.insert(1,3)

# Output: [1, 3, 9]

print(odd)

odd[2:2] = [5, 7]

# Output: [1, 3, 5, 7, 9]

print(odd)

How to delete or remove elements from a list ?

odd = [1, 9]

odd.insert(1,3)

# Output: [1, 3, 9]

print(odd)

odd[2:2] = [5, 7]

# Output: [1, 3, 5, 7, 9]

print(odd)

How to remove the elements from the list

my\_list = ['p','r','o','b','l','e','m']

my\_list.remove('p')

# Output: ['r', 'o', 'b', 'l', 'e', 'm']

print(my\_list)

# Output: 'o'

print(my\_list.pop(1))

# Output: ['r', 'b', 'l', 'e', 'm']

print(my\_list)

# Output: 'm'

print(my\_list.pop())

# Output: ['r', 'b', 'l', 'e']

print(my\_list)

my\_list.clear()

# Output: []

print(my\_list)

>>> my\_list = ['p','r','o','b','l','e','m']

>>> my\_list[2:3] = []

>>> my\_list

['p', 'r', 'b', 'l', 'e', 'm']

>>> my\_list[2:5] = []

>>> my\_list

['p', 'r', 'm']

List methods

my\_list = [3, 8, 1, 6, 0, 8, 4]

# Output: 1

print(my\_list.index(8))

# Output: 2

print(my\_list.count(8))

my\_list.sort()

# Output: [0, 1, 3, 4, 6, 8, 8]

print(my\_list)

my\_list.reverse()

# Output: [8, 8, 6, 4, 3, 1, 0]

print(my\_list)

Iterating through the list

for fruit in ['apple','banana','mango']:

print("I like",fruit)