Python中列表用[]表示。

例：程序list\_test/list\_test.py

bicycles = ['trek', 'redline']  
print(bicycles[0])  
  
# 修改  
motorcycles = ['honda', 'yamaha', 'suzuki']  
print(motorcycles)  
  
motorcycles[0] = "ducati"  
print(motorcycles)  
  
# 添加  
# 队尾添加  
motorcycles.append("honda")  
print(motorcycles)  
  
# 插入  
motorcycles.insert(1, 'lifan')  
print(motorcycles)  
  
# 删除  
del motorcycles[0]  
print(motorcycles)  
  
# 删除队尾  
motorcycles.pop()  
print(motorcycles)  
  
motorcycles.pop(1)  
print(motorcycles)  
  
# 根据元素值删除  
# 删除第一个匹配值  
# 如果不存在会报错  
motorcycles.remove('lifan')  
print(motorcycles)  
print()  
  
# 列表排序  
cars = ['bmw', 'audi', 'toyota', 'ford']  
print("original:")  
print(cars)  
cars.sort()  
print("sort:")  
print(cars)  
print()  
  
# 临时排序  
cars1 = ['bmw', 'audi', 'toyota', 'ford']  
print("original:")  
print(cars1)  
print("sorted:")  
print(sorted(cars1))  
print("original again:")  
print(cars1)  
  
# 获取列表长度  
length = len(cars1)  
print("length: ")  
print(length)

输出为：

trek

['honda', 'yamaha', 'suzuki']

['ducati', 'yamaha', 'suzuki']

['ducati', 'yamaha', 'suzuki', 'honda']

['ducati', 'lifan', 'yamaha', 'suzuki', 'honda']

['lifan', 'yamaha', 'suzuki', 'honda']

['lifan', 'yamaha', 'suzuki']

['lifan', 'suzuki']

['suzuki']

original:

['bmw', 'audi', 'toyota', 'ford']

sort:

['audi', 'bmw', 'ford', 'toyota']

original:

['bmw', 'audi', 'toyota', 'ford']

sorted:

['audi', 'bmw', 'ford', 'toyota']

original again:

['bmw', 'audi', 'toyota', 'ford']

length:

4

例：程序list\_test/list\_test1.py

# for循环操作列表  
magicians = ['alice', 'david', 'carolina']  
for magician in magicians:  
 print(magician)  
 print("great trick")  
print("Thank you everyone\n")  
  
# 数值  
for value in range(1, 6):  
 print(value)  
print()  
  
# 数值列表  
numbers = list(range(1, 6))  
print(numbers)  
print()  
  
# 步长为2  
even\_numbers = list(range(2, 11, 2))  
print(even\_numbers)  
print()  
  
# 空列表  
squares = []  
for value in range(1, 11):  
 squares.append(value \*\* 2)  
print(squares)  
print("max:")  
print(max(squares))  
print("min:")  
print(min(squares))  
print()  
  
big\_numbers = list(range(1, 1000000))  
sums = sum(big\_numbers)  
print(sums)  
  
# 列表解析  
cubes = [value \*\* 3 for value in range(1, 11)]  
print(cubes)

输出为：

alice

great trick

david

great trick

carolina

great trick

Thank you everyone

1

2

3

4

5

[1, 2, 3, 4, 5]

[2, 4, 6, 8, 10]

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

max:

100

min:

1

499999500000

[1, 8, 27, 64, 125, 216, 343, 512, 729, 1000]

例：程序list\_test/list\_test2.py

players = ['charles', 'martina', 'michael', 'florence', 'eli']  
print("1-2:")  
print(players[0:2])  
print("2-3:")  
print(players[1:3])  
print("1-4:")  
print(players[:4])  
print("3-末尾:")  
print(players[2:])  
print()  
  
# 列表复制  
foods = ['pizza', 'falafel', 'carrot']  
  
# 采用切片方式复制列表  
# foods与fri\_foods是不同的列表  
fri\_foods = foods[:]  
  
foods.append('cannoli')  
fri\_foods.append('ice cream')  
  
print("my foods:")  
print(foods)  
print("\nfriend foods:")  
print(fri\_foods)  
print()  
  
# 如果简单的赋值  
foods1 = ['pizza', 'falafel', 'carrot']  
fri\_foods1 = foods1  
  
foods1.append('cannoli')  
fri\_foods1.append('ice cream')  
print("my foods:")  
print(foods1)  
print("\nfriend foods:")  
print(fri\_foods1)  
print()

输出为：

1-2:

['charles', 'martina']

2-3:

['martina', 'michael']

1-4:

['charles', 'martina', 'michael', 'florence']

3-末尾:

['michael', 'florence', 'eli']

my foods:

['pizza', 'falafel', 'carrot', 'cannoli']

friend foods:

['pizza', 'falafel', 'carrot', 'ice cream']

my foods:

['pizza', 'falafel', 'carrot', 'cannoli', 'ice cream']

friend foods:

['pizza', 'falafel', 'carrot', 'cannoli', 'ice cream']