Listas

```
mylist = ["apple", "banana", "cherry"]
thislist = ["apple", "banana", "cherry"]
print(thislist)
```

Permite dados repetidos

```
thislist = ["apple", "banana", "cherry", "apple", "cherry"]
print(thislist)
```

Lista tamanho (Length)

```
thislist = ["apple", "banana", "cherry"]
print(len(thislist))
```

List Items - Data Types

```
list1 = ["apple", "banana", "cherry"]
list2 = [1, 5, 7, 9, 3]
list3 = [True, False, False]
```

Acessar um item

```
thislist = ["apple", "banana", "cherry"]
print(thislist[1])
```

Range (intervalo)

```
thislist = ["apple", "banana", "cherry", "orange", "kiwi", "melon", "mango"] print(thislist[2:5])
```

Verificar a existencia de um item

```
thislist = ["apple", "banana", "cherry"]
if "apple" in thislist:
    print("Yes, 'apple' is in the fruits list")
```

Alterar um valor

```
thislist = ["apple", "banana", "cherry"]
thislist[1] = "blackcurrant"
print(thislist)
```

inserir valores no final da lista

```
thislist = ["apple", "banana", "cherry"]
thislist.append("orange")
print(thislist)
```

inserir valores na posição

thislist = ["apple", "banana", "cherry"]
thislist.insert(1, "orange")
print(thislist)

inserir uma lista na outra

thislist = ["apple", "banana", "cherry"]
tropical = ["mango", "pineapple", "papaya"]
thislist.extend(tropical)
print(thislist)

remover um item específico

thislist = ["apple", "banana", "cherry"]
thislist.remove("banana")
print(thislist)

remover (índice)

thislist = ["apple", "banana", "cherry"]
thislist.pop(1)
print(thislist)

remover o último

thislist = ["apple", "banana", "cherry"]
thislist.pop()
print(thislist)

remover um item específico (outro comando)

thislist = ["apple", "banana", "cherry"]
del thislist[0]
print(thislist)

remover a lista

thislist = ["apple", "banana", "cherry"]
del thislist

limpar a lista

thislist = ["apple", "banana", "cherry"]
thislist.clear()
print(thislist)

loop na lista

thislist = ["apple", "banana", "cherry"]
for x in thislist:
 print(x)

loop via índice

thislist = ["apple", "banana", "cherry"]
for i in range(len(thislist)):
 print(thislist[i])

```
loop utilizando o While
thislist = ["apple", "banana", "cherry"]
i = 0
while i < len(thislist):
 print(thislist[i])
 i = i + 1
Organizar a lista
thislist = ["orange", "mango", "kiwi", "pineapple", "banana"]
thislist.sort()
print(thislist)
ordem inversa
thislist = ["orange", "mango", "kiwi", "pineapple", "banana"]
thislist.sort(reverse = True)
print(thislist)
copiar a lista
thislist = ["apple", "banana", "cherry"]
mylist = thislist.copy()
print(mylist)
ou
thislist = ["apple", "banana", "cherry"]
mylist = list(thislist)
print(mylist)
juntar duas listas
list1 = ["a", "b", "c"]
list2 = [1, 2, 3]
list3 = list1 + list2
print(list3)
list1 = ["a", "b", "c"]
list2 = [1, 2, 3]
for x in list2:
 list1.append(x)
print(list1)
list1 = ["a", "b", "c"]
list2 = [1, 2, 3]
list1.extend(list2)
print(list1)
soma dos valores de uma lista
list1 = [1, 2, 3]
list2 = [1, 2, 3]
list3 = []
for i in range(len(list1)):
       list3.append(list1[i]+list2[i])
print(list3)
```

Exercícios:

```
    imprima o segundo elemento da lista fruits = ["apple", "banana", "cherry"]
    Altere o valor de "apple" para "kiwi", na lista de frutas. fruits = ["apple", "banana", "cherry"]
    Use o método append para adicionar "orange" à lista de frutas. fruits = ["apple", "banana", "cherry"]
    Use o método de insert para adicionar "lemon" como o segundo item na lista de frutas. fruits = ["apple", "banana", "cherry"]
    Use o método remove para remover "banana" da lista de frutas. fruits = ["apple", "banana", "cherry"]
    use um intervalo(range) de índices para imprimir o terceiro, quarto e quinto item da lista. fruits = ["apple", "banana", "cherry", "orange", "kiwi", "melon", "mango"]
    imprima a quantidade de itens da lista fruits = ["apple", "banana", "cherry"]
```