Tips and Tricks

Sequence Unpacking
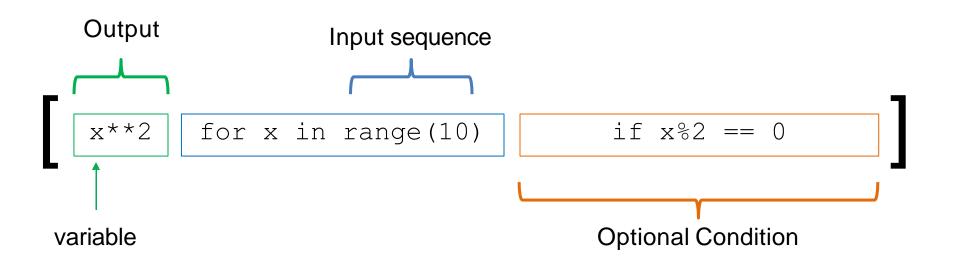
```python
l = [1,13,3,7]

a,b,c,d = l

# a=1,b=13,c=3,d=7

a,*b,c = l

# a=1,b=[13,3],c=7
```

List Comprehension

It is an easy method to construct a list

Output

Input sequence

```
[  x**2   for x in range(10)   if x%2 == 0  ]
```

variable

Optional Condition

```
L = [ x**2 for x in range(10) if x%2 == 0 ]

#output: [0, 4, 16, 36, 64]
```

enumerate Function

```python
languages = ["JavaScript", "Python", "Java"]
for i , l in enumerate(languages):
    print("Element Value: " , l, end=", ")
    print("Element Index: " , i)
```

```
Output:
Element Value: JavaScript, Element index: 0
Element Value: Python, Element index: 1
Element Value: Java, Element index: 2
```