

Slicing

Slicing is the extraction of a part of a string, list, or tuple. It enables users to access the specific range of elements by mentioning their indices.

Syntax:

1. **Object [start : stop : step/direction]**
2. **Object [start : stop]**

start: The start parameter in the slice function is used to set the starting position or index of the slicing. The default value of the start is 0.

stop: The stop parameter in the slice function is used to set the end position or index of the slicing[(n-1) for positive value and (n+1) for negative value].

step: The step parameter in the slice function is used to set the number of steps to jump. The default value of the step is 1.

Rules for working

Step1: -Need to check step direction by default it's goes to positive direction.

Step2: Need to check start-point and end-point direction.

Step3: If both directions are matched, then working fine.

Step4: Otherwise it gives empty subsequence.

Example:

```
var = "I love python"
print(var[::])

# Output
I love python
```

Example:

```
var = "I love python"
print(var[::-1])

# Output
nohtyp evol I
```

Example:

```
var = "I love python"
print(var[-2:-5])

# Output
empty string/blank output
```

Example:

```
var = "I love python"
print(var[2:5:-1])

# Output
empty string/blank output
```

Example:

```
var = "I love python"
print(var[::-2])

# Output
Ilv yhn
```

Example:

```
var = "I love python"
print(var[::-2])

# Output
nhy v1I
```

Example:

```
var = "WELCOME TO MY BLOG"
print(var[3:18])
print(var[2:14:2])
print(var[:7])
print(var[8:-1:1])
print(var[-6:-9:-3])
print(var[-9:-9:-1])
# Output
COME TO MY BLOG
LOET Y
WELCOME
TO MY BLO
Y
```