

```

1 # Slices
2
3 """
4 SLICE:
5     --> Slice is a way to grab the subset of any string or list.
6     --> list[start:end:step]
7     --> Slicing Always Returns The New List It Never Modifies The Original
    List. It is also a way to make copy of list along with copy() method.
8     --> End Index is Exclusive
9 """
10
11 message = 'Abhishek Baghel Loves Programming'
12 print(message[4:]) # Start From Index 4 and End At The Last Index.
13 # Start From Index 3 and End At Index 16 and take jumps of 1.
14 print(message[3:16])
15 # Start From Index 0 and End At Index 16 and take jumps of 2.
16 print(message[:16:2])
17 # Start From Index 0 and End At The Last Index and take jumps of 1 but in
    reverse order.
18 print(message[::-1])
19
20 names = ['Abhishek', 'Dylan', 'Jonas', 'Bittu', 'Jen', 'Brad', 'Max',
21         'Andrew', 'Hem', 'Heam', 'Kr$na', 'Void', 'Bella', 'Talha']
22 print(names[4:])
23 print(names[3:7])
24 print(names[:11:2])
25 print(names[::-1])
26 print(names[2][::-1]) # Select Index 2 Item Which is String 'Jonas', then
    reverse it using slice.
27
28 """
29 TRICKS WITH SLICES:
30     --> Reversing List/String:
31         --> string/list[::-1]
32     --> Modifying Portion of List:
33         --> numbers = [1, 2, 3, 4, 5]
34             numbers[1:3] = ['a', 'b', 'c']
35             print(numbers)
36 """
37 numbers = [1, 2, 3, 4, 5]
38 print(numbers)
39 numbers[1:3] = ['a', 'b', 'c']
40 print(numbers)
41

```